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NEW SERIES—No. 313.

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FIRE BRICK—CAUSE OF THE FAILURE OF FIRST HEARTH IN THE GRACE FURNACE.

[To the Editor.]

It was to be expected that the foundryman and constructing engineer of the Grace furnace would make some effort to escape from the responsibility of its first failure. Endeavoring not to fall into Mr. King's error of mistaking personal abuse and ridicule for argument, I will make a simple statement of facts and leave practical iron-masters to judge how far the charge in my article of June 6th have been refuted or sustained. In that communication I said: "The second cause of failure was the employment of a foundryman who had had no experience whatever in an anthracite furnace, and very little, if any, in running any furnace." Mr. Main now admits that he had had no experience in an anthracite furnace; all he claimed was that he had been foundryman at the Grafton coke furnace for two years. I called on Mr. Henry S. King, manager of that furnace, on Thursday evening, May 7th, with a general letter of introduction from Messrs. Pratt & Co., of Buffalo. Mr. King told me at that time that he had always directed the working of the furnace himself, and that Main had been the engineer; another employee made the same statement. Mr. King, in his letter to Mr. Main, simply says that he does not remember making any such statement, and does not know me. His own words imply that what he told me was true. If he misinformed me, and Main did manage the furnace, why does he not say so directly? From Mr. Main's account to me, I imagine there was a little difference of opinion between himself and Mr. King as to who did run that furnace. Perhaps in his next letter Mr. Main will explain the whole matter as he gave it to me. I think now probably that he did run the furnace for a short time, either as founder or in some position under Mr. King (what that was I leave them to settle between themselves); but on the strength of Mr. King's statement and after an examination of the stock book at the Grace, I felt perfectly justified in expressing the doubt implied by the words, "very little, if any."

Mr. Main very properly says nothing about his blunders in filling the furnace. Will he state why he used three-fourths hard ore to one-fourth hematite, and why, (before the fires were lighted), charging on a nominal basis of 1,500 lbs. of coke (actual weight, 1,850 lbs.) the burden was increased from 1,100 lbs. to 1,400 lbs. at a single charge? He says that the furnace was not changed abruptly from coke to anthracite; one day all coke was used, the next one-third anthracite, the next one-half anthracite, and the following day all anthracite. Bearing in mind the facts that he was experimenting with a large furnace, and using a fuel which he admits was new to him, the change can hardly be considered very gradual. "Enough limestone, and only enough, was used to make a good quality of iron." In going over the stock-book with Mr. Main, I asked an explanation for the immense quantity of limestone used, and was informed that it was necessary to flux the sulphur in the fuel. To take this point outside of mere assertion, will Mr. Main state what per cent. of sulphur was present, how much limestone it ought to take to flux it, and then give the figures to support his position, by stating the weekly or monthly totals of ore and limestone? I will repeat the statement that the experiments made were errors, not because they were experiments, but because they were conducted without any method or system. Mr. Main offers to "prove that within three weeks from the time of blowing in, and while yet using coke, having not yet used one ounce of anthracite coal, the furnace was all cut out, the hearth all gone;" and yet he kept it in blast for nearly three months afterwards. It is not always best to prove too much.

"Mr. Hall, in his article, says nothing about the hot blast. Why does he not tell us the reason why the arches of the hot blast melted down?" Mr. Main must first prove that they did melt down. I was assured by a gentleman of undoubted veracity, and who has been one of the most successful managers in the Lake Superior district, that he was present when the hot blast gave out; that the fire brick was not melted, but that the roof of the combustion chamber was improperly constructed and caved in; but as the brick lay there covered with the melted backing and stuck together in a mass, an inexperienced observer would jump at the conclusion that the whole thing was melted down. I have no doubt that Mr. Main can bring forward a number of perfectly truthful witnesses who can say, in faith, that they saw the ovens and that the fire brick were melted down. The opinion of one expert, however, who investigated the matter, is worth any amount of prejudiced or ignorant testimony. The main point at issue is the failure of the furnace, and until the foundryman has satisfactorily explained his blunders in managing that, all efforts to direct attention to side issues must be considered slightly suspicious. After all, the founder's share of the blame is comparatively small, for as the furnace was constructed no one could make it work well. Had Mr. Main been a good furnaceman he never would have attempted to blow the Grace until extensive changes (made after the first blast) had been effected. I repeat what I said before: "The first and most important cause of failure was lack of experience in the constructing engineer." Stripping Mr. King's reply of all its illtempered sarcasm and personal abuse, what rebutting evidence do we find in it? As to his "experience and knowledge in constructing and operating blast furnaces," will he, instead of referring generally to "several prominent furnace owners in Pittsburgh," simply state what anthracite furnaces he built and operated before he undertook the Grace? In my first letter I made three charges against the builder. Let us consider them in order and see if they have been answered: 1st—"The lower part of the furnace was improperly shaped." The bosh had a slope of 3.25 inches, and the hearth was 7 feet 3 inches wide at the tuyeres. Mr. King says: "Her record for both quantity and quality of iron produced since rebuilding with good brick will compare favorably with that of any other furnace of similar dimensions, working on stock of same quality."

thracite; the second blast was on coke and bituminous, and it is a general principle in furnace building to make the bosh steeper as the fuel is lighter. However, if the first shape was correct, will Mr. King explain why, when Mr. Ripks, the present manager of the Grace, sent him for a copy of the original drawing of the stack he received instead one with twice as much fire brick in the bottom and a hearth a foot narrower?

I quote again: "There was a time in the history of blast furnaces when the boshes were made as flat as four inches to the foot, and about the same time the furnaces were blown with a very weak power, small hot blast and one tuyere." I can show Mr. King three furnaces in successful operation in Pennsylvania, in two of which the slope is five and one-half inches to the foot; in the third the slope is seven inches—the average slope of twenty-five foundry iron stacks is 4.01 inches; of twenty mill iron stacks, 3.46 inches. Least any one should consider these figures exceptional, let me prove this to be not only the average practice but also the latest and best. To do this I will give the average dimensions of ten of the newest and most widely known anthracite furnaces in the country. I would like to give the figures in each case, but propriety forbids; anyone interested, however, can easily verify the results by application to the works named. The stacks are: No. 5, Allentown Iron Company, Allentown, Pa., built in 1873; Nos. 5 and 6, Thomas Iron Company, Hokendansqua, Pa., built in 1872 and 1873; No. 1, Niagara River Iron Company, Ironton, N. Y., built in 1873; Nos. 1 and 2, Olcott Iron Company, Albany, N. Y., built in 1873; Nos. 1 and 2, Crown Point Iron Company, Crown Point, N. Y., (Lake Champlain), built in 1873; Nos. 1 and 2, Cedar Point Iron Company, Fort Edward, N. Y., (Lake Champlain), built in 1874. The figures in the left hand column give the average of these furnaces, in the right hand column the corresponding dimensions of the Grace. All of these furnaces have plain cylinder boilers—the Grace boilers each have two 16-inch return flues:

Height of stack.....	63.2 ft.	60 ft.
Diameter of bosh.....	17.5 ft.	17 ft.
Diameter of hearth.....	6.75 ft.	7.25 ft.
Slope of bosh.....	4.05 in.	3.25 in.
Number of tuyeres.....	9	7
Number of boilers.....	5	8
Length of boilers.....	32 ft.	25.5 ft.
Diameter of boilers.....	38 in.	42 in.
Diameter of steam cylinder.....	48 in.	34 in.
Diameter of air cylinder.....	50 in.	84 in.
Length of stroke.....	7 ft.	7 ft.

Mr. King must answer such facts with something more than sneers or assertions. In my article of June 6th, I said, "The large number of tuyeres, taken in connection with facts to follow, (referring to lack of power,) had an important effect on the working." I afterwards explained what that effect was. I am aware that furnaces have worked well with seven and even nine tuyeres, but in all cases the blowing power has been enormously greater than that of the Grace, and it is still a mooted question as to how far the number of tuyeres may be advantageously increased. The average of about sixty anthracite stacks, making all grades of iron, is but six, and most of the exclusively foundry iron stacks have but five. The best kind of tuyere is hardly pertinent to the present discussion; but I will say that Mr. King's first choice (the shell tuyere) is now used in only six out of sixty furnaces—the objections to a coil not covered with cast iron are that they are hard to pack, and when the clay does harden around them, are difficult to take out and replace.

"The greatest mistake was lack of power." The air cylinder was 84 inches, and the steam cylinder only 34 inches, the areas being 38.48 square feet, to 6.3 square feet, a ratio of 6.1 to 1. There is too great a disproportion here for efficient uniform work, but if the boilers are able to supply the requisite pressure and volume of steam under all conditions, of course this engine could supply the blast. There were only three twenty-six and one-half foot boilers, forty-two inches in diameter, with two sixteen inch return flues, and they had to supply, in addition to the blowing engine, a clumsy steam hoist which had two cylinders ten inches in diameter, and thirty or thirty-five feet long. Will Mr. King state why the owners of the Grace took out his hoist and put in another kind, and also doubled the number of boilers before blowing in the second time? Evidently they were not satisfied. Will he also state why he made no provisions for cleaning or repairing the boilers without stopping the furnace? Also, why he permitted steam to be condensed and throttled all the way from the boilers to the engine in a five-inch unjacketed pipe?

Mr. King says: "In the early days of steam engine, cylinder or plain shell boilers were used; but latterly they have gone almost entirely out of use, particularly where economical use of fuel is important."

I think he would be justified in saying that where economical use of fuel is important they have gone entirely out of use. In blast furnaces, however, the generation of steam economically is a matter whose importance is entirely overbalanced by other considerations which time forbids me at present to discuss, and I must only state bare results. The average of over fifty anthracite furnaces is eight boilers (plain), thirty-eight inches in diameter and fifty-four feet long; out of the whole number of which I have any knowledge but four use flue boilers, and the average size of these four stacks is only 42 feet 9 inches high, 13 feet 6-inch bosh, and 5 feet 2 inches across the tuyeres; average number of tuyeres, four. The smallest of these stacks (and the one with the least boiler power) is forty feet high, thirteen feet diameter at boshes, with a four-foot six-inch hearth; it has an open top, and is blown with three tuyeres. Even this little furnace has about as much power as the Grace—four boilers forty-eight inches in diameter, twenty-four feet long, with one eighteen-inch return flue each.

Mr. King asks: "If the quality of brick was good, why did the hearth bottom in the Grace give out? Why did not the common fire-brick, of which the entire bosh was built from a point forty-two inches above the tuyeres, give out?"

I have before me a drawing of the Grace after blowing out, made by Mr. King, and certified to as correct in a letter from him to Messrs. Hall & Sons, which shows the original lines and the lines cut out

by the first blast. In answer to his first question I would say that the bottom is entirely too light, being only one course of 16-inch blocks, set on end and resting on an inverted arch 23 inches deep; this rests on about 18 inches of loam. The trouble was that when the hearth filled with iron this loam dried out and settled, thus cracking the arch and letting the iron through. If the bottom had been solid enough to sustain the weight above without opening the joints it would have stood all right. The drawing before me shows that from the tuyere openings the hearth and bosh are burned out to a point six feet three inches above; that is, about three feet above where the Buffalo brick were used. This fully demonstrates the correctness of my statement that the brick were cut out as far as the blast would reach up and down the stack. I am not familiar with the construction and working of the Grafton furnace, and do not give opinions in cases where I do not know all the facts. If Mr. King will send me a tracing showing the construction lines and lines of wear I will answer his question.

In relation to the Carpi River furnace I will say that the hearth and bottom were of stone, (except that after the furnace was finished one course of nine-inch brick was laid inside over the bottom). The Buffalo brick were used only above the hearth and are still all right. The furnace blew out because the iron worked through the bottom. And now let me say in general in relation to this brick question that there is no manufacturer who has not had numerous cases just like the Grace. The ignorant builder or foundryman is bound to shield himself as easily as possible, and "poor fire-brick" is always tried the first time. It is not always easy for the most experienced engineer or furnaceman to determine in every case what the precise cause of failure is, for while much light has been thrown on blast furnace operations in the last few years, much is still uncertain.

We do know certainly that poor fire-brick will not stand intense heat under any circumstances. When, therefore, manufacturers can show furnaces which have been running continually for from two to eight years can we not fairly conclude that the exceptional cases, where blasts have been short, may be due to some other cause, even if we cannot, as in the case of the Grace and Beecher, point directly to the right place?

Messrs. Hall & Sons have been in this business for nearly thirty years. They still have in their employ their original superintendent, and they do not use a pound of material not mined in New Jersey. When Mr. King called on them in March, 1873, he was taken to see the Fletcher furnace, owned by Messrs. Pratt & Co., which had then been in blast since November, 1870. That furnace has not blown out yet.

If Mr. King "can furnish letters from prominent iron masters who have tried and condemned their brick," they would like nothing better than to submit both sides to the public in that way. I am not a member of that firm, but was employed by them to investigate this matter. Having finished the subject so far as they are concerned, I am now perfectly willing to discuss any of the points involved in this or any previous communication on the subject.

Very respectfully,
EDWARD J. HALL, JR., Ph. B.

BUSINESS AT LARGE.

—Money continues in excessive supply in New York and the amount of surplus funds on the market appears to be increasing. Call loans are freely offered upon Government securities at 2 per cent, and stock collateral at 3 per cent. First-class mercantile acceptances, having four months to maturity, are negotiated by dealers at 6 to 7 per annum discount; prime single name obligations are placed at 8 to 9 per cent.

—The winter wheat crop of the Southern States is likely to be an average, but this average is never high, though the quality is next to the best. No spring wheat is grown. Latest accounts from California confirm the previous statements that the largest crop ever raised on the coast is likely to be produced this year. In Ohio, Indiana, Michigan, Northern and Western Illinois, Missouri and Wisconsin, winter wheat is generally equal to the average. In some places winter-killing and extra cold will sadly diminish the crop.

—The withdrawal of bonds to secure circulation by the Commercial National Bank of Chicago is a phenomenon which will require all the ingenuity of the inflationists to explain. The bank in question had deposited with the treasury bonds to the amount of \$456,000. The law allows the withdrawal of such bonds on the presentation of legal tenders to the amount of ninety per cent of the par value; but the greenbacks must be offered in sums of \$1,000 or multiples thereof, and the bonds may not be reduced below \$50,000. Hence the Commercial National Bank, in redeeming \$400,000 of its bonds with \$300,000 in legal tenders, has gone to the full extent the law allows.

—The Embreville Iron Works, Tenn., were recently sold for \$150,000. The purchasers, it is understood, will commence operations soon.

—The Wyandotte (Mich.) Evening Courier says: "The Silver Islet company are putting a new amalgamating machine into the silver works, for the purpose of trying the No. 4 ore, of which they have about 30,000 tons mined. If it realizes a fair per cent of silver, it will all be worked up. June 9th the Silver Smelting Works company shipped 9,367 ounces of fine silver to New York."

—The Oakshoek (Wis.) Manufacturing Company's property was sold at assignee's sale on the 25th ult. The extensive works, a large quantity of material, machinery, castings and patterns, finished and unfinished, threshing machines, with extensive grounds fronting on the river, with two railway tracks running towards them, and all franchises, patent rights relative to the Geyser threshing machine and Reliance horse power sold in a lump for \$51,700. The whole property and appurtenances was valued at \$125,000, and was the finest works and convenient grounds in the State. P. Sawyer & Co. were the purchasers. This is the company got up there expressly for the purchase of this property, and consists of the Hon. Philatus Sawyer, Edgar Sawyer, H. W. McKay, W. W. Dinger, and probably S. M. Hay. The new company will put immense capital into the works and carry them to the fullest success.

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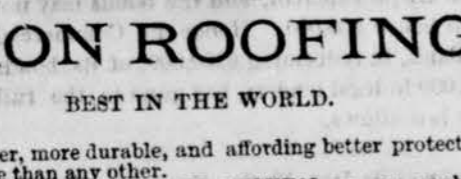
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284-48.

Miscellaneous Directory.

NEWARK STEEL WORKS.
Benjamin Atha & Co.,
Manufacturers of
CAST STEEL,
NEWARK, N. J.
276-328
M. BOSS,
Mining and Topographical
ENGINEER.

MICHIGAMME, (L. S.) MICHIGAN.
Attention paid to examination of lands for Mineral or
Timber. References given. 289y1
J. M. WHITE,
ARCHITECT AND CONSTRUCTOR
OF
CHARCOAL
BLAST FURNACES.

Plans, specifications and estimates of construction fur-
nished upon application. Address,
289m8 FOND DU LAC, Wis.

FIRE BRICK.
For Blast Furnace, Rolling Mill
and all purposes.
Manufactured exclusively of the
BEST NEW JERSEY CLAYS.
Address HALL & SON, Buffalo, N. Y., or
A. HALL & SON, Perth Amboy, N. J. 287-318

WATSON FIRE BRICK MANUFACTORY.
ESTABLISHED 1836.
JOHN R. WATSON,
PERTH AMBOY, - - NEW JERSEY,
Manufacturer of
FIRE BRICK,

For Rolling Mills, Blast Furnaces, Foundries, Gas Works,
Lime Kilns, Tanneries, Boiler and Grate Setting, Glass
Works, &c.
Fire Clays, Fire Sand and Kaolin for sale. 279-330

Chicago Business Directory.
RHODES & BRADLEY,
DEALERS IN
PIG IRON,
COAL AND IRON ORES,
OFFICE 154 WASHINGTON ST.,
NEAR LA SALLE. DOCK
ILLINOIS CENTRAL RAIL-
ROAD SLIPS, 302-334

JAS. B. GOODMAN & CO.,
78 DEARBORN ST., CHICAGO,
DEALERS IN
IRON LANDS,
CHARCOAL TIMBER
LANDS,
PINE LANDS.

Have for sale 120,000 acres, in quantities to suit. Splendid
hardwood selections along the line of the Chicago &
Northwestern Railway in Menominee County, and on the
Menominee Iron Range. First-class Pine Lands tributary
to Menominee and other streams in Marquette and
Menominee counties, Michigan. Also dealers in Chicago
Real Estate. 292y1

A. B. MEEKER & CO.,
PIG IRON,
RAILS AND IRON ORES
NO. 92 WASHINGTON ST.,
CHICAGO [302-354] ILLINOIS

THE
GRAND PACIFIC HOTEL
Opposite the Government Square and the new Federal
buildings, is without doubt the most perfect hotel
structure in the world, and the largest edifice represent-
ing private enterprise in the United States. Its four
fronts, on Jackson, LaSalle, Quincy and Clark streets,
have an extent of ten hundred and twenty-two (1022) feet.
It was opened to the public on the 23 day of June, 1873,
and has proved to its multitude of patrons, representing
the best elements of the traveling community, the well
chosen and unsurpassed character of all its appointments
and arrangements, (of which special mention may be made
of the Baths, Turkish, Electric and Vapor) secured with a
lavishness of outlay, aided by experience and careful
study, never before given to an enterprise of its class.
The magnificence of the exterior, its great interior rotun-
das, superb public apartments, and unequalled suites of
private rooms on its mile of corridors, the system and de-
tail of its management have not only won the pride and
admiration of our citizens and guests, but furnishes the
key to the success of the GRAND PACIFIC, which from the
outset has never been equalled by any previous or cotem-
porary enterprise. Central to all the great railway de-
posits, the banks, wholesale stores, and places of elegant
shopping, and amusements, it is at all seasons, by its
lightness, spaciousness, and perfection of ventilation, the
most comfortable as well as elegant home for the resident
guest and tourist ever offered. And it will be maintained
as it has begun, the most complete and perfect hotel in
the world—a claim for it sustained by the guests of the
past eleven months, many of them our patrons since the
opening of the former Sherman House, July 8, 1861.
(GROUPE W. GAGE,
Chicago, May 21, 1874.
JOHN A. RICE,
Lessors for 20 years.
305-4f.

Cleveland Business Directory.

EDWARDS, TOWNSEND & CO.,
1874. | | 1874.
WHOLESALE GROCERS,
NUMBERS 151 AND 153, - WATER STREET,
Wm. Edwards, Amos Townsend, } CLEVELAND, OHIO. 284-316
J. Burton Parsons. }
O. A. CHILDS & CO.,
MANUFACTURERS OF HAND MADE
Boots and Shoes,
111 and 113 Water Street, Cleveland, Ohio.
Manufacturers at Lynn and Webster, Mass. We pay
special attention to mining and all classes of goods adapt-
ed to Lake Superior trade, as well as all description of
over shoes and rubber goods, at manufacturers prices.
293-255.

W.M. BINGHAM & CO.,
HARDWARE,
IRON, NAILS AND METALS; RAILWAY AND MIN-
ING SUPPLIES.
148 AND 150 - WATER STREET.
W. Bingham, H. C. Blossom, } CLEVELAND, OHIO. 284-358
J. E. Greene, F. E. Thomas. }

Detroit Business Directory.
W. D. ROBINSON, BURTEISHAW & CO.,
Manufacturers and wholesale dealers in
Boots and Shoes,
Special attention given to Lake Superior trade. Orders
promptly executed on as favorable terms as any other
house East or West.
73 JEFFERSON AVENUE, DETROIT, MICH. 284-345

JOHN J. BAGLEY & CO.,
MANUFACTURERS OF
MAY FLOWER
CHEWING TOBACCO,
And all kinds of Smoking Tobacco,
Dealers in Pipes, Snuffs, Cigars, &c.
J. J. BAGLEY,
EDWIN BUTTERFIELD, } 311-363 DETROIT, MICH.

D. D. MALLORY & CO.,
Wholesale dealers in Raw, Cored and Spiced
OYSTERS,

Canned Fruits and Vegetables, Foreign and Domestic
Dried Fruits, Pickles, Catsups, Lobsters, Sardines, &c.
No. 70 JEFFERSON AVENUE, - [303-355] - DETROIT.

SAMUEL F. HODGE,
Michigan Iron Foundry,
DETROIT, MICH.,
Manufacturer of High and Low Pressure Steam Engines,
for Boats, Mills, Stamping, Pumping and Hoisting pur-
poses.

JOHN HEFFRON,
Importer and Wholesale Dealer in Foreign and Do-
mestic
FRUITS!
COVE OYSTERS AND CAN GOODS
OF ALL KINDS.

Pickles, Sauces, &c.
Lake Superior Orders Promptly Filled, and at Low-
est Market Rates. 298-1f.
218 JEFFERSON AVE., DETROIT MICH.

Steamboat Line.
1874. - - 1874.
FOR
MILWAUKEE AND CHICAGO.

Goodrich Transportation
Company's Line.
The Side-Wheel Steamboat
"ALPENA!"
Will leave Escanaba Every
WEDNESDAY & SATURDAY

On arrival of trains from Negaunee, for
Washington Harbor, Ahnapew, Kewanee, Man-
itowoc, Sheboygan, Port Washington, Mil-
waukee, Racine, CHICAGO.

Saturday's Boat Will Touch
at Fayette.
Returning, leave Chicago Monday and Thursday Morn-
ings at 9 o'clock.
Leave Milwaukee same evening at 7 o'clock, touching at
Port Washington, Sheboygan, Manitowoc, Kewanee
Ahnapew, Washington Harbor, Fayette.

For further information, Freight or Passage, apply
to
G. HURSON, Agent, Milwaukee.
G. E. STARKWEATHER, Agent, Escanaba.
A. E. GOODRICH, President, Chicago. 311-318

Steamboats.

1874. | | 1874.
DULUTH
Lake Transportation Co.
SOUTH SHORE LINE
Lake Superior Steamers,
Will form a
SEMI-WEEKLY LINE
BETWEEN
MARQUETTE, HOUGHTON, HANCOCK, EAGLE
RIVER, EAGLE HARBOR, ISLE ROYALE,
ONTONAGON, ASHLAND, BAY-
FIELD AND DULUTH.

Steamer Manistee, going west, leaves every Saturday,
8 o'clock P. M.
Steamer Metropolis, going west, (via Isle Royale) leaves
every Tuesday, 11 o'clock P. M.
For further information, passage or freight, apply to
F. B. SPEAR & CO., Agents, Marquette, or to
297-330 JOHN GORDON, Manager, Duluth, Minn.

1874. | Lake Superior | 1874.
PEOPLE'S LINE
STEAMERS.

PEERLESS, CAPT. ALLAN McINTYRE.
J. L. HURD, CAPT. THOS. LLOYD.
NORMAN, CAPT. JOHN McLEOD.

The above named steamers will make regular trips dur-
ing the season of navigation between Chicago, Milwaukee
and Duluth, touching at all intermediate ports on Lake
Michigan and Lake Superior, including Isle Royale.

We would call the attention of the
Mining and Railroad Compa-
nies and Merchants to our
Extensive Commission
Purchasing Business,

To which we pay special attention, and parties favor-
ing us with their orders
CAN ALWAYS REST ASSURED OF THE VERY
LOWEST MARKET PRICE.

As our experience in the purchase of Lake Superior
supplies is very large, and our facilities second to none.
LEOPOLD & AUSTRIAN,
Managers Lake Superior People's Line Steamers, &c., &c.,
350m6 CHICAGO AND MILWAUKEE.

WHITE STAR LINE
CARRYING THE UNITED STATES MAIL. The
magnificent new and full-powered steamship Republic,
Baltic, Adriatic, Britannic, Oceanic, Celtic, etc., sail from
New York on Saturdays and Liverpool on Thursdays.
Rates as low as any first-class line. Drafts on Great Brit-
ain and Ireland from £1 upwards. Office, 97 South Clark
street, Chicago. ALFRED LAGERGREN, Agen-
CITIZEN'S BANK, F. M. Steele, Cashier, Agent, Mar-
quette, Mich. 289-241

For Grand Island!
The Steamer
IRA CHAFEE,
C. D. BLANCHARD, Master.

FIRST REGULAR PASSENGER BOAT ON THE
ROUTE.
LEAVES MARQUETTE FOR ONOTA
AND MUNISING DAILY.
AT 10 O'CLOCK A. M.
For freight and passage apply to F. B. SPEAR & CO.,
Agents. 302-4f.
SEASON OF 1874.
Through Tickets
VIA NIAGARA FALLS AND BUFFALO TO
Albany, Washington, Baltimore, Philadelphia,
Boston, New York,
And cities of the South and East. Steamboat line to Buf-
falo. [304m6] P. M. EVERETT & SON.

FIRST-CLASS
TUGS
For Wrecking, Towing, &c. Also STEAM PUMPS,
Hawsers, Lighters and Barges.
Tug Jay C. Morse,
Tug Joe D. Dudley.
Direct all communications to GEO. W. BENEDICT,
Secretary. 305f1

Carpenters and Joiners.
BRIMACOMBE & CUNDY,
Carpenters, Joiners
AND
BUILDERS.
STAIR BUILDING AND JOBBING.
ALL ORDERS PROMPTLY ATTENDED TO.
Plans, specifications and estimates furnished on applica-
tion. We Guarantee Satisfaction. Shop over McCabe's
blacksmith shop, corner Lake and Superior streets,
MARQUETTE, L. S., Mich.
WM. BRIMACOMBE.
J. G. CUNDY. 302-355

Insurance.

\$100,000,000
PETER WHITE
INSURANCE DEPARTMENT.

The Phoenix Insurance Company of Hartford,
Conn.
Assets\$1,500,000
The Home Insurance Company of New
York.
Assets\$5,000,000
The North British and Mercantile Insurance
Company.
Capital (in gold).....\$10,000,000
The Underwriter's Agency of New York.
Assets\$4,000,000
The Aetna Insurance Company of Hartford,
Conn.
Assets\$6,000,000
The Insurance Company of North America,
of Philadelphia.
Assets\$5,000,000
The Hartford Fire Insurance Company of
Hartford, Conn.
Assets\$2,600,000
The Connecticut Mutual Life Insurance Com-
pany of Hartford, Conn.
Assets\$30,000,000
The Mutual Life Insurance Company of New
York.
Assets\$40,000,000
The Universal Life Insurance Company of New
York.
Assets\$800,000

PETER WHITE, AGENT
For all the Reliable
FIRE, MARINE AND LIFE IN-
SURANCE COMPANIES IN
THE WORLD.

The Liverpool, London and Globe Insurance
Companies
Assets.....\$18,500,000
The Detroit Fire and Marine Insurance Com-
pany, of Detroit, Mich.
Assets.....\$270,000
The Traveler's Life and Accident Insurance
Company of Hartford, Conn.
Assets\$1,500,000
284-236

Hardware and Mining Supplies.
JAS. PICKANDS & CO.,
Wholesale and Retail Dealers in
Heavy Hardware,
RAILWAY AND
MINING SUPPLIES.

Bar Iron, Boiler Plate, Sheet, Hammered
and Swedes' Iron, Black Diamond Drill
Steel, Sanderson Bros. & Co's Drill
Steel, Naylor's Drill Steel, Bar,
Plate Bliester and Sleigh
Shoe Steel.

Crow Bars,
Sledges, Striking Hammers, Railroad Picks, Mtners
Picks, Pull Picks; Pick, Sledge and Hammer Handles;
Ame's Patent Welded and Strap-back Shovels, Nails
and Spikes, Nuts, Washers, Boiler Rivets, Horse Shoes
all Rod, Pig Lead, Tin and Copper.

Axes!
Babbitt Metal Solder, Antimony and Spelter; Sand Barr-
ows, Blocks and Corlages, Wire Rope, Rubber Hose and
Packing, Leather Belting, Oils, Leads.

Varnish!
Chemical Paints—all colors—Dry and Oil Colors; Brushes,
Gas Pipe and Fittings, Gas and Steam Fittings, Black-
smith's Tools, &c., &c.

AGENTS FOR
HALL & CO'S FIRE-PROOF SAFES FAIRBANK'S
UNITED STATES STANDARD SCALES, EARL'S
STEAM PUMPS, MERRIAM & MORGAN'S
LUBRICATING OILS, FINE BRICK
AND CLAY.
Dealers in
Hard and Soft Coal.
284-532

ISHPEMING.

AHMEEK LODGE No. 150-L. O. O. F.-E. Blackwell, N. G.; F. W. Richards, Secretary. Meetings held on Friday evenings.

EXCELSIOR ENGAGEMENT No. 38.-S. E. Osborne, H. P. Meetings held on the first and third Mondays of each month.

ISHPEMING LODGE, U. D. F. & A. M.-Regular communications Thursday on or before the full moon. D. F. WADSWORTH, Sec'y. P. T. TRACY, W. M.

ISHPEMING MECHANICS' AND LABORERS' BENEFICIAL SOCIETY.-Regular meetings first Saturday of each month, at 7:30 P. M., in the upper room of the M. E. church. All nationalities invited to join. J. ALLEN, Sec. THOS. HARPER, Pres.

EXTREMES meet when a person sends a bouquet of flowers for a church festival wrapped up in a copy of the Day's Doings!

We are informed that a woman was injured by a lightning stroke at the New York on Tuesday night, but have been unable to learn the name of the person.

A PARTY, comprising the cavalry of the town, left yesterday morning for a fishing trip down the Northwestern road. They will fish to-day, and hold camp-meeting to-morrow, under the lead of the eminent exhorter, formerly of the Cleveland mine.

THOSE court-house cigars have at last arrived at Sam Rice's, and the members of the court-house league are endeavoring to draw inspiration from them. We have the word of one of the league that the court-house is all right, and will be along in a short time.

ONE of the heaviest storms which has visited this place in a long time occurred on Tuesday evening last. The rain fell in perfect torrents, and the accompanying thunder and lightning was terrific. A regular gale of wind prevailed, and left traces of its havoc in the woods on all sides in upturned trees.

THE Presbyterian festival at Austin's hall on Wednesday evening turned out a very pleasant affair, and was enjoyed by a goodly number of people. Fair and willing hands spent a good portion of the day in decorating the hall with evergreens, flags and emblems, and the effect when finished was pleasing.

FIRE.-On Tuesday evening last, during the prevalence of a severe thunder storm, lightning struck the barn of the New York Iron Company, in the first ward of this city. The fire immediately communicated to the surrounding combustible materials, and in a short space of time the entire building was in flames. The fire alarm was sounded and the fire department turned out lively with their apparatus, but when the location of the fire was discovered these were abandoned, there being no fire plugs in that section. The citizens generally repaired to the spot, however, and by forming a line, and passing water in pails, they succeeded in confining the flames to the building in which they originated. In the barn were twenty-three horses, a quantity of hay and harnesses. One horse was killed by the stroke, and the others were all got out safely, after almost superhuman efforts. Mr. James West, stable boss, displayed rare pluck in his efforts to release the animals. He was kicked and knocked down three times by one horse, but stuck to him with "clear grit" until he succeeded in cutting the halter and liberating the animal. The loss to the company will approximate \$4,000, on which there is no insurance.

IS THIS A FISH STORY? -The following story, originating in the Akron (Ohio) Beacon, is floating around among the newspapers. It looks to us decidedly like a fish story, but may have a foundation in fact. If such an individual has left here in the manner described, some of our readers are doubtless aware of it. We have not learned of the sailing of any such craft from Marquette, which point would probably be the one where the lake journey commenced: "A queer little craft, bearing on her bow the euphonious name of The Coaster, passed through this city this morning en route south on the Ohio canal. She was a fore and aft rigged sloop, about twenty feet long and of about three tons burthen, and was towed in lieu of the long-cared specimen of Darwinism, by an able-bodied, intelligent-looking man, apparently about forty years of age. A Beacon reporter, who espied the strange vessel, had the curiosity to interview the 'captain,' and from him gathered the following interesting story: His name is Chas. Amy, a sailor and carpenter by trade, and he hails from Ishpeping, Mich. Conceiving the idea of settling in Florida, he purchased a boat, and, loading his household goods-including one wife and one dog-on the 27th of June last he set sail for his far off destination. Proceeding to Grand Island, on Lake Superior, he hitched his boat to the propeller Rocket and was conveyed to Cleveland. Here he reefed his sails, and, harnessing himself to his vessel, he started on his long and tedious journey of over 300 miles before striking the Ohio River. He goes from here to Dresden, where he will take to the Muskingum River, on which he will sail to Marietta, on the Ohio. He will then proceed directly to Cairo, Ill., thence down the Mississippi to the Gulf of Mexico and across the same to Tampa Bay, Florida. He carries on board, besides an abundance of provisions, a miniature stove, on which the couple do their own cooking. The two sleep on board, mooring the boat to the side of the canal during the night. Mr. Amy is evidently a well-educated man, possessing a wide knowledge of the world, and conversing fluently and instructively. All join in wishing him bon voyage on his long and, in many respects, dangerous journey."

BASE BALL.-A game was arranged to take place to-day between the Republic club and the Lake Breeze, of Marquette, but at the present writing it is not definitely known whether or not the match will be played. If either of the clubs fail to come to time, it is likely a game will be arranged between home nines.

On Wednesday next a match will be played on the Ishpeping grounds between the Mutuals of this city and the Negaunee club. This contest will be one well worth seeing.

The L'Anse club is anxious to be beaten, and has accordingly challenged the Mutuals. As yet the time for the game has not been set.

A match was played lately between the New York nine and the Negaunee Juniors, on the grounds of the former, at which the respectably sized score of 54 to 59 was made, with the larger figure on the side of the New Yorks.

The third game, between the Mutuals of this city and the Juniors of Marquette, has not yet been arranged. This is a match in which considerable interest is manifested, and all are anxious for its consummation.

The "silver goblet," won by the Mutuals in their late contest with the Silver Grays, hangs from the wall in the office of the Mutuals' captain. Above it is the American eagle in Fourth of July dress, while beneath hangs a lock of silver gray hair tied with crape. On either side is a base ball cap. The cup is one of elaborate workmanship, and was gotten up for the occasion at Colwell's silverware manufactory in this city.

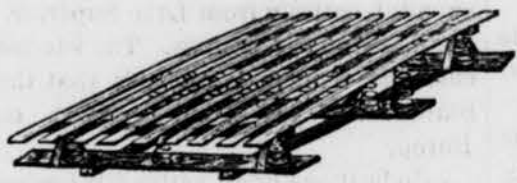
We have unearthed a deep conspiracy to mislead

the readers of the MINING JOURNAL, regarding the result of the game between the Mutuals and Silver Grays. Our special reporter here was instructed to telegraph full particulars of the important event, and took to the telegraph office a truthful account, which the operator took and agreed to forward. It must be known that there are in this city several private instruments, and at least one of them is connected with the main line. The operator "called" Marquette, received "O. K.," and sent the message. The proprietor of this private outfit, who was interested in the success of the married nine, captured the message at his house, giving "O. K." for the Marquette office, and the operator reposed in blissful ignorance of the fact that the dispatch had not left the city. Then the person who took the message prepared the one which was published last week, announcing a victory for the "Grays," and rising early in the morning sent it to Negaunee by train, to be forwarded from there to this office. But a truth-telling resident of the city, happening in our office, and being in favor of the other side, gave us the true state of the case. Then we were enabled to present both sides of the story, giving the public its choice! The "Grays" are chagrined in not being able to parade before the world the story of their victory(?) through our columns. It is said the Silver Grays are now getting off behind barns, and in other out-of-the-way places, practicing on base ball, with the intention of going for and utterly demolishing the single men.

Ishpeping Advertisements.

H. J. COLWELL, DEALER IN HARDWARE, STOVES, NAILS, GLASS, &c., Manufacture of Tin, Sheet Iron and Copper Ware. CORNER MAIN STREET AND CLEVELAND AVENUE, ISHPEMING. 285-331

FURNITURE EMPORIUM!



H. KRETCHMER & CO. Have now in store the LARGEST STOCK OF FURNITURE ever before offered this community, comprising Chamber and Parlor Setts, Suitable for every want and every class. WALNUT, ROSEWOOD and the more common sets in as elegant style and at LOWER RATES, than can be had abroad. Special attention given to the undertaking business. Coffins, Burial Caskets, Coffin Trimmings, &c., to suit all circumstances. New novelties will be announced as they are received. Agents for Jones' Patent Bed Spring, also the Celebrated Hartford Woven Wire Mattress. 271-322

SUPERIOR FOUNDRY,

ISHPEMING, MICH.

Engines,

Blast Furnace,

MINING AND MILL

MACHINERY,

IRON AND BRASS CASTINGS.

Boilers

BUILT AND REPAIRED.

A full stock of STEAM AND GAS PIPE, AND FITTINGS of all kinds and descriptions. A large and complete stock of

Rubber and Hemp Packing.

ALL SIZES OF

BAR AND ROUND IRON

ALWAYS ON HAND. Agents for KNOWLES' PATENT STEAM PUMPS, WM. CANFIELD & CO'S EMPIRE PACKING. 267y1

Ishpeping Advertisement.

DRUGS AND MEDICINES!

PAINTS AND OILS,

Books and Stationery, TOYS, NOTIONS AND CUTLERY; PAPER HANGINGS AND CENTER PIECES; CIGARS AND TOBACCO; BABY CARRIAGES.

CONFECTIONERY, FISHING TACKLE.

Fire Assays

of Gold, Silver and Lead Made.

263-315 J. ROPES & CO., Ishpeping, Mich.

Iron Foundry.

Iron Bay Foundry,

D. H. MERRITT, PROPRIETOR,

MANUFACTURER OF

Steam Engines,

BLAST FURNACE,

Mining & Mill Machinery,

Pumps, &c.

IRON AND BRASS CASTINGS

Of every description made to order. Also Babbit or anti-Friction Metal, for bearings, constantly on hand-made and warranted.

HEAVY OR LIGHT FORGINGS.

STEAM BOILERS, SMOKE STACKS, BREECHINGS, DOORS for bank vaults, WINDOW SHUTTERS,

AND ALL KINDS OF SHEET IRON WORK.

ALSO

Skips, Kibbles, Ore Buckets,

And all kinds of mining and furnace work. Particular attention paid to repairing.

D. H. MERRITT. 284-331 Marquette, April 22, 1873.

Hardware.

Credit

IS ABOLISHED.

GREAT REDUCTION

IN

HARDWARE!

HAVING ADOPTED THE

CASH BASIS

Of doing business, we are prepared to offer

EXTRA INDUCEMENTS

To customers to purchase of us

Nails,

Glass,

Locks,

Butts,

Screws,

AT RUINOUSLY LOW RATES.

CARPENTERS' TOOLS, Corresponding in price to the low rate of wages.

STOVES AND TINWARE, In proportion to the great reduction of iron.

SHELF HARDWARE (of all kinds) Lower than ever before.

AGRICULTURAL IMPLEMENTS At Granger prices.

FISHING TACKLE AND SPORTING EQUIPMENTS At bottom figures.

Owing to the great and increasing demand for CHILDREN'S PERAMBULATORS We offer them at wholesale rates.

PLUMBING AND GAS-FITTING Done in the most workmanlike manner, and at Eastern prices.

We expect ONE and ALL to pay CASH on delivery of goods, and shall make NO DEVIATION from this RULE, as we have put our PRICES DOWN SO LOW we cannot afford to give CREDIT.

SCOVILLE & JOHNSON

91 FRONT STREET. 273y1

Drugs and Medicines.

H. H. STAFFORD,

Dealer in

Drugs, Medicines,

BOOKS AND STATIONERY.

A CAREFULLY SELECTED STOCK,

Comprising in part Soaps, Brushes, Perfumery, Frazzles, Cosmetics, Dressing Cases, Towels, Friction Gloves, Mirrors, (Hand) Tweezers, Chamoms, Plasters and Split Skins, Vanilla Beans, Farina, Cologne, Mouchoir Sachets, Sachet Powder in Bulk, Puff Boxes and Puffs, Court Plasters, Playing Cards, Cachous, Lip Salves, Razor Straps, English Razors, Pocket Cutlery, Odor Flasks, French Blacking, Pink Saucers, Syringes, Trusses, Corn Plasters, Orange Flower Water, Rose Water, Maw's Feeders, Chris Extracts,

PRODUCTIONS OF LUBIN, LOW, SON & HAYDON, Societe Hygienique, Rimmel Prix,

AND MANY OTHER STANDARD PREPARATIONS AND NOVELTIES.

Prescriptions Carefully Prepared

At all hours of day and night.

A full and complete stock of BLANK BOOKS, and everything for office use; also

SCHOOL BOOKS, MISCELLANEOUS BOOKS,

Consisting of all Standard Works and the Reading Matter of the Day.

INITIAL PAPER, ENVELOPES, FABERS' AND EAGLE PENCILS, DRAFTING PAPER, SEALING WAX. 284-336

General Merchandise.

1874.

PENDILL & BEATTY

DRY GOODS,

BOOTS AND SHOES,

Ready-Made Clothing,

Furnishing Goods,

BUILDING PAPER, WALL PAPER,

Groceries

PROVISIONS,

Flour and Feed,

WHOLESALE AND RETAIL

For Cash

Superior Street, Marquette. 283y1

Livery Stables.

THE EXCELSIOR

Livery and Boarding

STABLE

Is now better than ever prepared to furnish on short notice

HORSES,

Double and Single Cutters,

Of the best style, and at the most reasonable rates. Having removed to our new and spacious quarters, and added largely to our stock, we feel justified in asserting that we have the best appointed and most complete livery establishment in the Lake Superior country. Our aim will always be to keep the best stock to be had in the market, thereby insuring satisfaction to our customers. Tourists and pleasure parties will be furnished with competent guides, if desired.

RIGS FURNISHED NIGHT OR DAY.

Funerals Receive Especial Attention.

HORSES BOARDED REASONABLY:

FREEMAN & BRO., Proprietors, FRONT STREET, NEARLY OPPOSITE FIRST NATIONAL BANK, MARQUETTE, MICH. 284-38

LIVERY,

BOARDING AND SALE STABLE,

Front and Superior Streets,

MARQUETTE, MICH.

CULBERT & READ,

Having purchased of T. T. Hurley his entire livery establishment, has a new stock of horses, buggies and carriages, and the old and new patrons of the concern can always rely upon finding on hand

First Class Rigs.

Carriages furnished for private parties and funerals. 285-321

Jewelry.

CONKLIN

Has the largest stock of

FINE

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SOLID SILVERWARE, &c.,

In this country.

American Watches,

IN GOLD AND SILVER CASES.

ELEGANT NECKLACE OPERA CHAINS,

As fine an assortment of

STONE RINGS,

(AMETHYST, TOPAZ, ONYX, CAMEO, &c.) as can be found at any store in the State.

Also the largest and finest collection of

LAKE SUPERIOR

SPECIMENS,

INDIAN CURIOSITIES, &c.,

To be found in the city, at reasonable prices. Call and examine before purchasing elsewhere. REPAIRING NEATLY AND PROMPTLY DONE.

Cor. Adams' Block,

No. 68 - FRONT STREET,

MARQUETTE, L. S. 298-330

MINING JOURNAL.

MARQUETTE, MICHIGAN, JULY 18, 1874.

EDITORIAL CORRESPONDENCE.

DULUTH, July 13, 1874.

It is not yet a week since the writer quitted the sanctum, but in that time he has visited all the towns on the south shore, except L'Anse and Copper Harbor. Taking the good steamer Metropolis at Marquette on the evening of the 7th, the early dawn found us in port at Eagle Harbor, where we were detained for several hours by a slight accident to some of the machinery. The accident enabled us to "do" the town thoroughly, and make the acquaintance of some of its most prominent business men. Among them Messrs. Foley and Braley, to say nothing of A. Dahm, tinsmith, whose stove pipes are the occasion of so much profanity in early autumn. We also called upon Editor Looney, and finding him absent, wheeled our card up to the door and left it there. He doubtless knows before this time that he had callers, and will probably be on hand to receive us should we ever pay him another visit. Looney is a good fellow, and a man of the greatest versatility of talent—else how could he ever succeed in editing two columns of newspaper, saw wood, teach school, hoe potatoes, hold a county office, and sit on jury all at the same time!

Copper Harbor has the appearance of being the oldest town on the lake, but is certainly most pleasantly situated on one of the prettiest little bays on the lake. It is, however, extremely dull—the buildings are nearly all old and weather-worn, and the solitude of its streets as silent and oppressive as night in a church-yard. We are told, however, that all its people are making some money, that they are happy and contented, and live strong in the faith that their town will yet become the commercial metropolis of the copper district, or of Keweenaw county, at all events. We noticed some native copper on the dock waiting shipment—the product of the Central, Copper Falls, Petherick and Delaware mines being shipped from this point. The Phoenix, which is located near Eagle River, also ships a part of its product from Eagle Harbor. All the mines named above are working, and an increased product, as compared with last year, is anticipated.

In the early days of copper mining on Lake Superior, Copper Harbor was the most active town on the lake, and for a number of years was thronged by anxious speculators, many of whom planted more gold and silver in the surrounding country than they were afterwards able to harvest in the way of dividends. In 1845 great excitement was occasioned by the discovery of silver on the shore, just in front of Braley's warehouse. Considerable silver was taken out, but the mine proved to be only a pocket, and was abandoned. The completion of the Portage Lake and Lake Superior ship canal leaves the towns out in the cold somewhat, since very few steam or sail craft now call at any of them, except they have sufficient freight or passengers to land or take away to make the trip profitable.

From Copper Harbor we continued our trip through the canal to Houghton, stopping at Eagle River just long enough to land freight. We were not given sufficient time to inspect the town, and met none of its prominent citizens, save the genial Col. Wright, who maintains the reputation of keeping a most excellent hotel. Business is not particularly brisk, and, so far as we could learn, the Cliff and Phoenix mines are the only ones working.

At the canal we found a dredge at work in the channel, removing the sand which has washed in at one or two points. The crib work and piers at the lake entrance appear to be of the most substantial character, and the depth of water is sufficient at all points for the passage of the largest steamers on the lake. Some complaints were made soon after the opening of navigation, but an examination by engineers sent for that purpose by the Governor proved them to be groundless.

Of Houghton and Hancock, this deponent says nothing. With such an excellent paper as the Gazette to speak for them they do not require notice at the hands of outside bohemians. Besides, we stopped just long enough to surround an excellent supper at the Douglass House, and no longer.

We passed Ontonagon in the night, reaching Ashland about two o'clock on Thursday. From there we took in LaPointe and Bayfield, taking tea with Captain Smith and his estimable wife at the Bayfield House. In the evening Capt. Atkins, having to run to Red Cliff for freight, tendered the good people of Bayfield an excursion, an invitation which was accepted by a large number. A string band from Duluth being in town, was engaged for the occasion, and a general good time was had—your correspondent just more than astonishing the natives with the "poetry of motion," for which he is noted. At Bayfield we took on as passengers Hon. Eugene Wilson, Mayor of Minneapolis, Dr. Smith, Mayor of Duluth, and several other prominent personages. The trip throughout was most pleasant and enjoyable, Capt. Atkins and his officers being indefatigable in their endeavors to provide for the comfort and pleasure of all on board. Indeed, "Bart" is most deservedly popular with the patrons of the line, handles his boat with rare skill and ability, and his congeniality has been the theme of praise with us all. The Metropolis is a staunch boat, makes good time, and ought to be most liberally patronized—as, indeed, she is.

Our impressions of Ashland, Bayfield, Duluth and Superior will be given hereafter. On returning we will take in the Penoka Iron and Ontonagon silver.

THE DOLLARS AND CENTS.

The Lake Superior country having passed through the ordeal of the financial panic, and an unusual depression in the iron trade, will now have to encounter what is near about as bad, and that is the inconveniences and uncertainty incident to convalescence. A patient who has been unusually ill may feel safe after the crisis has been passed, but find that recovery sometimes tedious. Among our merchants and mechanics there are great many such patients, whose severe indisposition a few months ago is as yet only relieved by the single panacea of Hope. The great falling off in business and the consequent increase of idleness and credit, without a reduction of expenses, which prevailed so long, has gradually intensified these difficulties, and the only relief now will be patience, more than ordinary perseverance, and the closest economy.

And the end will prove that all this will result in a far more certain and satisfactory state of affairs than existed when it was supposed that we were enjoying a never-ending state of prosperity. The disastrous system of credits will have been greatly diminished, discounts and interest avoided, and a more reliable and punctual system of business will follow. We refer now more particularly to that class of people who are not directly engaged in the ore trade, all of whom are more or less dependent upon the success of that trade, but who have been particularly overwhelmed by its misfortunes. The ore companies, as a rule, have means by which they can keep their finances in a fair condition, and though they may not escape loss, they are not apt to suffer extraordinary distress or bankruptcy. But the trader or the mechanic who is depending upon a miscellaneous community for all his resources must suffer directly in all times of depression, unless they are so well fortified as to conform exactly to the conditions and requirements of that depression. Hence we say that whilst disappointment and losses are to be regretted, are unpleasant at best, if such disappointment and losses will bring about a more healthy and satisfactory method of doing business, their result is a public benefit.

So far as the iron trade is concerned, we have good reason to believe that it will be sufficiently brisk, before the close of the season, to restore its health and give confidence to operators for a future which can be relied upon. Meanwhile let the cash system be adhered to so far as possible, thereby checking all tendencies to purchase beyond absolute direct means to pay; and let those who have cash invest it judiciously now, for their own profit and the use of the community at large.

SHIPMENTS.

MARQUETTE.—The following table exhibits, in gross tons, the shipments of iron ore and pig iron from this port up to and including Thursday, July 16:

Table showing shipments of iron ore and pig iron from Marquette. Includes columns for Ore and Pig Iron, with sub-totals and a weekly summary for amount shipped last week.

ESCANABA.—The following table exhibits in gross tons the shipments from Escanaba for this season up to and including July 16, 1874:

Table showing shipments from Escanaba for the season up to July 16, 1874. Lists mines like Jackson, New York, Cleveland, etc., and their respective shipment amounts.

L'ANSE.—The following shows the amount in gross tons, of ore shipments from the port of L'Anse for this season, up to July 9:

Table showing ore shipments from L'Anse for the season up to July 9. Lists mines like Spurr Mountain and Michigan mine.

GRAND ISLAND.—The following are the shipments, in gross tons, of pig iron from the Grand Island furnaces this season, up to July 16:

Table showing pig iron shipments from Grand Island furnaces for the season up to July 16. Lists Pioneer furnace, Deer Lake furnace, and Escanaba furnace.

THE DISTRICT.—The following table will show the total shipments, in gross tons, from the Lake Superior iron district for the season of 1874, up to July 16th:

Table showing total shipments from the Lake Superior iron district for the season of 1874 up to July 16th. Includes sub-totals for Marquette, Escanaba, and L'Anse, as well as grand totals for iron ore and pig iron.

RAILWAY SPECULATIVE MOVEMENTS.

To the wild speculation in railway movements is due the downfall in iron, if not the entire financial crash, more than any other cause. Fictitious fancy stocks, with high-sounding titles, coming from acknowledged leaders in railway matters, did it all. And, notwithstanding the heaviest of these operators were ruined, there are other railroad-bull Barkises who are "willin'" to try the game on a smaller scale, and who have lately been buying as recklessly as though they were sure of selling out next day at fifty per cent. advance. But Wall street proved, for once, too much for them. Although they accomplished a rise of five per cent. on some stocks, when they attempted to sell the market persisted in giving way. The rise was neither sufficient nor substantial, and considering the state of things, the only wonder is that it took place at all. Yet, the most worthless stock may be advanced somewhat with plenty of money to buy, in the hands of a reckless people.

This sort of operating should not and cannot to any great extent affect sound dividend security. The oldest of the roads are increasing their indebtedness, and if they pay but moderate dividends, it does not require very sharp eyes to see that new ones, set on a basis of speculative stock, cannot promise much profit to the honest boardholder.

We notice by reports from England that the iron trade of that country with this, is in a terribly crippled condition, whilst their trade with other countries has been considerably diminished. Under these circumstances it is not strange that their agents in Canada should be very anxious concerning a reciprocity treaty between the Dominion and the United States. The presence of supplies in Canada and their cheap labor would, by such a treaty, give that country an advantage over the iron makers in the north and western States, and undoubtedly a large amount of iron would be ballasted over to Canada from England and sent here.

In the north of England many of the furnaces are blown out, leaving over 2,000 men idle, and other furnaces are to follow. Altogether England's iron affairs have a much less encouraging appearance than our own.

MINING AND FURNACE NOTES.

—Enquiries for iron mining stocks are few, but enquiries for purchasers of the same are many.

—The Greenwood furnace saw-mill people boast of having the finest lot of lumber and logs in the country.

—Some of the Missouri iron companies issue script similar to that which has been so long in use in this district.

—A number of capitalists, in the interest of eastern explorers, are in the bush between the Stewart mine and L'Anse.

—Until now the Phoenixville Iron Company have stood the pressure of the times, but they have recently discharged a large number of their men.

—Several parties have lately attempted to obtain a lease of the Collins furnace property, with a view of putting the water power to light manufacturing uses.

—A letter, of a late date, from Isle Royale, informs us that the Island mine is doing well. About three hundred miners and surface men are employed. An engine house and hoisting machinery is going up, and everything goes well with the work. Mr. P. H. Harrington is exploring on the belt, one mile west of the Island opening, on the conglomerate, with good prospects. S. W. Hill is smelting more copper at First Island, on the north side of the main island near McCargo's lease. Mr. Davis, from the south shore, is operating McCargo's lease, getting it in order for mining. Mr. D. H. Harrington is exploring for the Royale Copper Company, of Marquette, opening a vein on section three of their land, which has a good show of copper. W. E. Speer is exploring for the Marquette Copper Company, and in following up the vein has found a good deposit of copper.

—That the full scope of the producing power of our iron region will ever be developed seems highly problematical. Beside the many lines of small or subordinate manufacture which should be engaged in, that of steel, the giant of metallurgy, should be cultivated. Our maniferous ores are admirably adapted to this purpose. Manganese exerts a purifying effect on steel, and a little experience with our ores would soon enable a manufacturer to evolve a quality of steel which could not be surpassed. We have in preparation an article in detail upon this subject, embracing the use of Lake Superior ores, and will give it in our next.

—ORGANIZED.—On the 14th inst. the Metropolitan Iron Company was organized with a capital of \$500,000, divided into 20,000 shares, of \$25 each. The stockholders of the company are: Seth D. North, of Hancock; S. S. Burt, of Marquette; John A. Owens, of Pittsburgh. The company will work the south half of northeast quarter and north half of the southeast quarter of section 2, town 46, range 30 west, Marquette county. Directors—Seth D. North, John A. Owens, S. S. Burt, David Richey, of Pittsburgh, and Seth C. Baldwin, Escanaba, Mich. President, S. S. Burt; Vice President, David Richey, Pittsburgh; John A. Owens, Secretary and Treasurer, Pittsburgh. The general office is at Pittsburgh, Pa.

The Riverside Iron Company was also organized on the 14th inst., with a capital stock of \$500,000. The following named gentlemen are the stockholders and directors: Seth D. North, of Hancock; John A. Owens, of Pittsburgh; and Samuel S. Burt, of Marquette, who elected the following officers: S. S. Burt, President; Vice President, David Richey, Pittsburgh;

John A. Owens, Secretary and Treasurer. General office located at Pittsburgh, Pa. The property to be worked by this company is the southwest quarter of section 33, town 47, north of range 30 west, Marquette county.

—The Iron Age of the 9th inst. says: "Under the most favorable circumstances, 1874 will be a bad year for iron manufacturers at home and abroad; but in this country seasons of utter depression are usually of brief duration, and we confidently expect an active demand for iron during the last four months of the year, which will considerably reduce the stocks in makers' hands, even with a moderate activity at the works. The stocks in consumers' and dealers' hands are very small everywhere, and with any improvement in the demand for manufactured iron, the mills will have to buy liberally. This will give an upward tendency to prices, and as soon as even a slight advance takes place, on the basis of a legitimate demand, every one will want to buy all he can carry."

—Careful investigation shows that the increased cost of labor has most to do with the increased cost of iron. There was an increase of 30 per cent. from 1869 until 1873. In 1874 the increase reached 75 per cent. over 1855. Pig iron was made at certain furnaces in 1862 at a cost of \$14.00, and in 1864 it had reached, at the same furnaces, a cost of \$36.00 per ton. In 1871 we compiled the statistics at the furnaces in the Lehigh valley and found the cost running from \$38.00 to \$33.00, the difference being chiefly in the labor account. It will thus be seen that the fluctuations are due more to the changes in the price of labor than to any other cause.

—Advice from Detroit inform us of the election of officers of the Marquette & Pacific Rolling Mill Company, by the board of directors, on the 13th inst., as follows: President, E. A. Elliot; Vice President, E. H. Drake; Secretary, John Scudder; Treasurer and General Manager, Wm. W. Wheaton. These gentlemen are all residents of Detroit, except Mr. Scudder, who has recently become a citizen of Marquette. We have no definite information on the subject, but it is believed that active operations will be commenced at the mill and furnace at an early date.

—The Schuylkill Works, at Phoenixville, Pa., are making satisfactory progress in copper smelting, having already smelted ores from Chili, Cuba and Spain. The article produced is so good that the Philadelphia mint, hitherto supplied entirely from Lake Superior, recently purchased 15,000 pounds. The success of this enterprise renders it probable that the United States will yet steadily export copper to Europe.

—Indications of an active fall business in the iron trade continue to multiply. The Cambria Iron Company, Johnstown, have started their rolling mills on "double turn," and the Bessemer steel works of the company, which have been running irregularly for some time past, would now be running on full time were it not for the scarcity of water.

—Business is quite active at the Michigan and Spurr Mountain mines. The boundaries of Michigan city are gradually extending westward, and if the proposed extension to the Republic branch road strikes the main line at the right point in this locality the result, aided by the Sheldon mine, will be a city more than a mile in length.

—The Canada Grand Trunk railway sends to Bethlehem, Pa., for Bessemer rails. This is contrary to the supposition that England can furnish them to Canada, free of duty, much the cheapest.

—An order for pig iron is being filled in the Lehigh Valley at \$42 per ton. It was given before the decline in prices.

—Over one million dollars' worth of pig iron is lying in yard at Scranton, for which there is no market.

THE CHEMICAL CENTENNIAL.

The year 1774 was rendered memorable by the discovery of Oxygen by Joseph Priestly, by researches on Chlorine by Scheele, and by important investigations undertaken by Lavoisier which eventually led to the overthrow of the phlogistic hypothesis; the most important link in the chain having been contributed on the first of August, 1774, by Dr. Priestly. Now Dr. Butler, of Columbia College School of Mines, suggested a centennial observance of the discovery, and proceeded to Northumberland, Pa., to hold the observance where Dr. Priestly made the discovery. He therefore made an exploring expedition to Northumberland for the purpose of ascertaining if the town is really a suitable place, and reported very decidedly in its favor. There are a great number of elements necessary to induce professional men to leave their occupations and spend a few summer days in social intercourse. The place must be pleasant as well as accessible, the living not too high, and, finally, there must be a prospect of meeting the great men of the guild. All these elements, we are happy to say, are in full force in Northumberland. The town is beautifully situated at the junction of the North and West branches of the Susquehanna, 60 miles above Harrisburg, and it is really accessible from all directions. Hotel accommodation is fair, and many hospitable houses will be open to the visitors.

The old Priestly house is still standing (and for sale), and the descendants of the great chemist are the most prominent family and among the most respected people in the vicinity. A great-grandson, also named Dr. Joseph Priestly, is a practicing physician, and evidently a favorite one, judging from the heartiness with which the honor proposed to his family name

was received by his towns-people. A local committee has been formed with him at its head. The memorial exercises have not been definitely arranged; but it is expected they will include:

- I. An address by Prof. Joseph Henry.
II. A sketch of the life and labors of Joseph Priestly, by Prof. Henry H. Croft.
III. A review of the century's progress in theoretical chemistry, by Prof. T. Sterry Hunt.
IV. A review of the century's progress in industrial chemistry, by Prof. J. Lawrence Smith.
V. An Essay on American contributions to chemistry, by Prof. Benjamin Stillman.

PARAGRAPHIC EDITORIAL.

CINDERS says Paris green will not cause potato bugs to take French leave.

INTEMPERANCE is the improper use of anything, even to beating your wife or misrepresenting your neighbor.

It is said that half of Chicago is out of town and the other half out of money. We know how to condole with the latter.

ATTENTION is directed to the correspondence from Engineering, on the 31st page, concerning the late meeting of engineers in St. Louis. It is racy.

ANOTHER communication on Woman Suffrage, from Mr. E. Summers, of Lansing, has been received. It will have attention at a future time.

If the comet is the cause of the high winds, where is the wisdom which will explain the cause of the hydropobia which is prevailing in New York and England?

PROF. MOUSE said that there are other things for people to do beside eat and drink and make money. We are doing all the other things on Lake Superior. Having postponed the money making, the eating and drinking must necessarily be abbreviated.

HAPPILY there are but few would-be Congressmen, in this part of the country, who desire to cultivate the art of shaking hands with the men, flattering the women or kissing the babies, although it is near time to commence these exercises.

WHAT a glorious air of independence pervades the sanctum where they can say, as they do in the Washington Chronicle office:

We do not belong to our patrons,
Our paper is wholly our own;
Whoever may like it may take it,
Who don't may just let it alone.

Two St. Louis editors are said, by a Cincinnati, to be disputing as to which of them is the "oldest citizen." One of them says, in answering to the other: "The 'writer' referred to was living in Missouri, while yet the editor of the Dispatch was boring gimlet holes for wheat culture in the granite hills of the paternal New Hampshire farm."

NEXT September a picked team of the best six shots in Great Britain, who carried off the Elcho challenge shield last year, will come to America for the purpose of shooting a match at Creedmore for the championship of the world, with native-born Americans, at long range—800, 900 and 1,000 yards. The general impression seems to be that our marksmen have a poor prospect of winning, long-range shooting being practised comparatively little in this country, but it is suggested that we have in the hunters of the West a corps of sharpshooters from whom long-range marksmen worthy of any competitors could be obtained with little trouble. The terms of the match debar all artificial rests, but allow any position of the body. With conditions so favorable to our frontiersmen there is no good reason to anticipate an American defeat, especially if adequate means are taken to spread the news of the approaching contest among the hunters and scouts through the military posts of the West.

THE principal business houses of New York are quite cheerful over the prospects of trade. The head of a large commission house, who has had an experience of forty years in the produce business, affirms that he never knew things to look more healthy and promising than at present.

IRON MARKETS.

BOSTON.—Flat. No inquiry, no sales. American pig, in yard, \$36@40 per ton.

PITTSBURGH.—Trade good considering time and circumstances. An anticipated rise is given as the cause for many of late sales. Within a short time 20,000 tons of mill iron have been sold for \$27.40, hot blast charcoal \$30@35. Cold blast charcoal, \$50@55. Manufactured iron, nails and steel, firm, and mills generally have a fair run of orders.

CINCINNATI.—Market unchanged, but a hopeful feeling prevails. Prices firm, for hot blast charcoal, at \$30@34. Cold blast charcoal, \$48@50.

CHICAGO.—Demand for American pig is improving. Lake Superior irons are bringing \$38@40—Champion and Pioneer car wheel, \$50.

CLEVELAND.—Market active at \$25@27, for Ohio and Pennsylvania make. Lake Superior inactive.

NEW YORK.—The Iron Age says: "We are not able to report any improvement in iron, though many well informed people are looking for a change for the better. Prices are quite as weak as they have been, and the demand has been small. There are rather indefinite reports floating round the market of large speculative sales, but it has so far been impossible to verify them. We have before referred to the increased competition of furnaces in the interior of this State in regions hitherto controlled by the Lehigh and North River furnaces. These same furnaces are also pressing into Canada, and underselling the imported iron on the Canadian side of the St. Lawrence and the Lakes. So important has this movement become that Montreal importers have sent several samples to Glasgow. New York furnaces are also sending iron west to Cleveland and other lake ports. We quote, as last week, foundry No. 1, \$31@32; foundry No. 2, \$29@30; gray forge, \$27@28. There would be no difficulty, however, in buying good brands cheaper, and in less favorite brands important concessions would be made.

Vertical text on the right edge of the page, including 'JULY 18, 1874' and other markings.

Local com- at its head. in definitely ill include: Joseph Priestly, in theoretical in industrial to chemistry, cause po- out of town We know responsible concerning Louis. It woman suf- fering, has son at a fu- high winds, explain the prevailing other things k and make things on the money must neces- ld be Con- who king hands n or kissing ne to com- dence per- say, as they : y a Cinch- of them is says, in an- referred to the editor of s for wheat ternal New of the best ed off the ll come to a match at the world, ng range- g impres- sion have nge shoot- tle in this ve have in sharpshoot- worthy ad with lit- able debar all on of the able to our to anticp- if adequate of the ap- pnters and the West. ew York are trade. The has had an ce business, look more American ng time and ven as the short time for \$27.40, st charcoal, steel, firm, gers. e a hopeful st charcoal, \$50. is improv- \$38 to \$40- 27, for Ohio inactive. We are not, though for a change as they have There are the market ar been im- in the inter- rolled by these same and under- side of the ant has this rtors have New York fur- veland and k, foundry \$800; gray difficulty, er, and in as would be

CITY AND COUNTY.

SERVICES AT THE CATHEDRAL.—Masses, 8 and 10:30 A. M.; Vespers and Benediction, 7:15 P. M.

MARQUETTE LODGE NO. 108—I. O. O. F.—Meet in Odd Fellows Hall, Everett's Block, every Wednesday evening.

IRON BAY ENCAMPMENT, NO. 58—I. O. O. F.—Meet in Odd Fellows Hall, Everett's Block, every Wednesday evening.

MARQUETTE, HOUGHTON & ONTOGON R. R. Trains Leave. Trains Arrive.

MARQUETTE POSTOFFICE. MAILS ARRIVE. From South, East and West. 6:25 P. M.

CINDERS. —The colleges are generally full this year. So are the students.

—Women can do one thing which men can't. They can put their clothes on over their head.

—The Burt Freeston Company now occupies the offices lately vacated by the custom house.

HANDFORD & Co., shoemakers, have removed to the building on Spring street, in the rear of the national bank building.

A LITTLE boy at the picnic on Wednesday was accidentally struck on the nose with a base ball, and quite severely injured.

A RUNAWAY horse added to the burden of the tax-payers on Monday by demolishing a gas post on the corner of Front and Superior streets.

The old Ridge street school house is being demolished, to make room for a more pretentious structure.

The north side of Ridge street, east of Front, now boasts of a new sidewalk the entire length.

CARD.—The Sir Knights, Lake Superior Com-mandery, desire to tender to Miss Gravenack and Messrs. Grau and Fay thanks for valuable aid in making the promenade concert so successful.

T. T. HURLEY, having purchased the building on Superior street, lately occupied by Enright & Spencer, has removed his stock of harness, trunks, &c., to that location.

OUR readers, and especially those living in the eastern and southern states, will be interested in the notice of the Union Steamboat Company, announcing grand pleasure excursions to Lake Superior.

THE Presbyterian society held a picnic in Harlow's grove on Wednesday afternoon. While the day was not as pleasant as could have been desired, still there was a goodly attendance, and a pleasant time for the participants.

HUCKLEBERRIES have made their appearance within the past week. They sold at first for 25 cents a quart, then dropped to 30, and will continue to fall until they can be bought for six or seven cents.

THE grocery store of Messrs. Kuhlman & Hotop, corner of Washington and Third streets, is one of the newest and best conducted establishments of the kind in the city.

their new uniform in this game. Their taste in selecting a dress is good, and they present a fine appearance in the field.

THE MILITARY COMPANY.—Some seventy citizens of Marquette signed an application for a military company, and the result is an acceptance by the Governor in a general order, assigning it as company H. in the second regiment.

Another great fire occurred in Chicago on Tuesday, breaking out at half-past 4 o'clock, P. M., in the rear of 527 Clark street, and by 9 o'clock sweeping north on Clark to 467; thence to Fourth avenue and Harrison street, and across to State, down to Van Buren, and over to Wabash avenue, this route being the north line.

A NUMBER of the stockholders of the Huron Bay Slate Company, who live in Marquette, and some of their associates from the east, recently made a trip to the quarries by lake, returning on Wednesday morning.

THE heaviest train of ore cars ever hauled on the Marquette, Houghton & Ontonagon railroad was brought down to Marquette from Ishpeming a few days ago by the engine Gitche Gumme, O. M. Reece, engineer. The train numbered 72 cars.

WE had a nuptial escape from the comet after all. We shall pass, according to the New York astronomer, Mr. Parkhurst, within one and a half million miles of it, which is six times the distance of the moon.

ON Tuesday evening, after an unusually hot and sultry day, a heavy rain storm set in, accompanied by thunder, lightning and wind.

LECTURE.—We call the attention of our readers to the lecture which will be delivered in St. Peter's Cathedral on Sunday evening, July 20th.

REDUCED RATES TO CALIFORNIA.—We are informed that the Chicago & Northwestern railway has made a large reduction on rates on emigrant tickets from Chicago to San Francisco, and other points in California.

COURT PROCEEDINGS.—The following is a record of the business transacted in circuit court since our last issue.

People vs. George Whittington. Time to prepare and settle bill of exceptions extended to any day in term.

People vs. Thomas Palmatier and Matilda Payment. Same as above.

George H. Laughton and Mary H. Avery vs. Marquette, Houghton & Ontonagon railroad company. Time to prepare bill of exceptions extended to first day of next term.

Robert McDougall vs. W. L. and F. P. Wetmore. Same as above.

Albert Bosworth and Duncan McKay vs. George Snively and Charles Sawyer. Judgment for plaintiff by default for \$283.92.

Zephir Wood vs. Marquette, Houghton & Ontonagon railroad company; assumpsit. Verdict for plaintiff for \$59.65.

James Landry vs. Marquette, Houghton & Ontonagon railroad company; assumpsit. Verdict for plaintiff for \$57.

O. Peck; replevin. Judgment by default for plaintiff for six cents damages.

Felson Dolbeck vs. Schoolcraft Iron Company. Order entered allowing service of declaration on any director or stockholder of said corporation, defendant.

In the cases of W. A. Cox, E. D. Cox, J. T. McCullum, Geo. Day, Nicholas Eriksson, D. Rankin, Z. Boyer, E. LaBoaf, J. S. Wood and D. McViche, all against the Schoolcraft Iron Company, similar orders to the above were entered.

Farmers' Loan and Trust Company vs. Eugene G. St. Clair; replevin. Verdict for defendant. Damages, \$4,730.24.

Helen M. Oakes vs. James Jones. Decree of nullity of marriage declared.

Eleanor Keating vs. Timothy Keating. Decree of divorce granted.

DIED. BOND.—Died of dysentery, at Marquette, Mich., July 15th, 1874, Florence Gertrude, youngest daughter of Oliver S. and Clara A. Bond, of Toledo, Ohio—aged 19 months and 24 days.

CHICAGO'S CALAMITY. Another great fire occurred in Chicago on Tuesday, breaking out at half-past 4 o'clock, P. M., in the rear of 527 Clark street, and by 9 o'clock sweeping north on Clark to 467; thence to Fourth avenue and Harrison street, and across to State, down to Van Buren, and over to Wabash avenue, this route being the north line.

THE district was the most part a mass of shabby inflammable buildings, inhabited by the vilest of people, and Chicago may consider it a blessing rather than a misfortune to have so miserable a mass of kindling wood swept away.

THE post office, (formerly the Methodist church,) on Wabash avenue, the Adelphi Theatre, the Harrison street school house, the St. James Hotel, and Wood's Hotel, were among the most notable buildings destroyed, beside handsome residences and some fine business houses on Wabash avenue.

THE fire was, to some extent, the scene of 1871 acted over—the same rapidity of progress, the same wild hurricane of fear and excitement. Fortunately it was no worse.

ANOTHER at Oshkosh.—At about the same time the fire broke out in Chicago, one burst forth in Oshkosh. Thirty business houses on Main street and three hundred dwellings in the first and fourth wards were consumed, at a computed loss of \$600,000.

ANOTHER, IOWA FALLS.—Thriving city on the Iowa division of the Illinois Central railroad, 144 miles west of Dubuque. The particulars are briefly as follows: A fire broke out in a meat market that afternoon at 3 o'clock, completely destroying the business portion of the town.

MARINE. PORT OF MARQUETTE.—ENTERED. July 10.—Prop Jos L. Hurd, Portage, sundries.

Prop Jos L. Hurd, 135 tons pig iron, Chicago. Prop Jos L. Craig, sundries, Duluth.

Prop Jos L. Craig, 82 tons ore, Ashabula. Prop Jos L. Craig, 35 tons ore, Erie.

Prop Jos L. Craig, 64 tons ore, Cleveland. Prop Jos L. Craig, 567 tons ore, Erie.

winter at Marine City, and is a large, fine appearing craft of about 1600 tons burthen. She is not fully completed as yet, her painting not having been finished.

A SCHOONER is now building at Detroit which will be a double-decker—the first sailing vessel of that class on the lake.

THE new steamship V. H. Ketcham, lately finished at Detroit, besides being the largest vessel afloat on inland waters, is the first three-decker. Her dimensions are: length over all, 257 feet; keel, 212 feet; beam, 49 feet; hold, 14 feet; measurement, 1,661.

A MAN named Spanwell was in Detroit on the 23d inst. with a small sail boat carrying a mainsail and jib, in which he intended to sail to Duluth.

REMOVED.—The custom house has been removed to the stone building corner of Lake and Superior streets, near the Cleveland Iron Company's pier.

JUNE DISASTERS.—The disasters during the month just closed number 232, and excess over May of sixty six. This increase may in part be attributed to fogs, which have been more frequent than in May, and the cause of much damage.

FURNISHED ROOM WANTED. Lock Box 324, City P. O.

LARGE lot of Collins, Caskets and Undertakers' Goods, at FIFTY CENTS on the dollar.

SHINGE BANDS.—Cut from best hoop iron, 3-inch wide, in unfinished lengths, strong, light and tough, 50 per cent. cheaper than sheet iron.

DON'T buy a Sewing Machine until you have seen Weed Machine at SCOVILLE & JOHNSON'S.

THE Weed Sewing Machine is not only one of the most useful but also most ornamental pieces of furniture you can put in your house.

THE most perfectly fitted and easiest running Sewing Machine is the Weed. For sale at SCOVILLE & JOHNSON'S.

NOTWITHSTANDING the hard times, if the ladies ever see the Weed Sewing Machine their husbands will have no rest until they buy one. Ask SCOVILLE & JOHNSON.

FOR SALE.—Fifty shares of the capital stock of the Champion Iron Company, which I offer for sale at forty dollars a share.

CALL at Scoville & Johnson's if you want to see the cheapest and best Sewing Machine in the market.

SMOKERS—Ask Cigar dealers for Cigars made at the Lake Superior Cigar factory, and you will receive an article that is bound to suit.

WE sell the Weed Sewing Machine on as favorable terms and at as low prices as any other first-class machine, and offer a large discount to CASH buyers.

200 PACKAGES choice, June Butter, in 25 to 50 pound tubs—just the thing for family use, for sale by MURRAY & ROBBINS.

THE Weed Sewing Machine is noiseless. It won't wake the baby. Scoville & Johnson have a large stock of them.

DR. HUMPHREY, one of the first Homoeopathic Physicians of the age, has been very successful in the treatment of many cases which have heretofore baffled the skill of our most scientific men.

You can hem, fell, cord, gather, ruffle, braid, quilt, or tuck—in fact, ladies, you can do any kind of sewing on the Weed Sewing Machine.

New Advertisements. Grand Pleasure Excursion to LAKE SUPERIOR. The Union Steamboat Company and Atlantic, Duluth & Pacific Lake Company.

1874 Semi-weekly Line of Splendid Passenger Steamers Winlow, Pacific, Arctic, Atlantic.

FOR Sault St. Marie, Marquette, L'Anse, Houghton and Hancock, (Portage Lake).

Trips of Winlow and Pacific will extend to Isle Royale.

SETH CALDWELL, Foot Main Street, Buffalo.

BULLARD, Atlantic Dock, Buffalo.

16,000 Acres of first-class Hard Wood and Pine Lands, located in one of the best sections for its use on the Upper Peninsula.

NEGAUNEE.

CHICAGO & NORTHWESTERN RAILWAY. GOING NORTH. ARRIVE. LEAVE. Day Express..... 7:30 A. M. 7:40 A. M. Express Freight..... 12:07 P. M. GOING SOUTH. ARRIVE. LEAVE. Day Express..... 8:20 A. M. 9:00 A. M. Express Freight..... 1:50 P. M.

O'DONNELL, the club-swinging policeman, has lit out for parts unknown. NEGAUNEE has material for the best base ball club in the county, but it seems hard work to get the "material" together.

HOS. W. H. BARNUM, of Connecticut, and Mr. Rood, of Chicago, gentlemen interested in the Iron Cliffs company, are in this city.

DR. COCHRAN is soon to remove his office to the rooms over Bentley's store, now occupied by Dr. Swain, who intends to leave the city.

BASE BALL.—The Negaunee nine, which so distinguished itself on the Fourth, is to go to Ishpeming Wednesday to play the Mutuals.

The temperance picnic, given on Saturday by the Good Templars of this city, is spoken of as having passed off very agreeably to all participants.

If your dog is not fixed up according to the law by the 24th inst. he will have to die. So says Tim Donohue, and, like the big Injan in dime novels, Tim wouldn't tell a lie if he could.

A FIRE alarm was sounded on Wednesday morning, caused by the burning out of a chimney in the rear of Winter's hall. The firemen turned out lively, but their services were not needed.

RACES.—There is to be a trotting match on the park to-day, between Sorrel Dan and Negaunee Boy, for \$200 a side, best two in three. The admission has been reduced to panic prices—25 cents.

ONE street in this city is said to have received its name from the fact that a resident thereon has agreed, in consideration of the name, to tramp the snow down on it during the winter. He can accomplish the feat if anybody can!

WE were mistaken in saying there was only one Dutchman in the Fourth of July procession. The Dutchman referred to has interviewed us with a big club, and says there were two others in the crowd. We cheerfully make the correction. Three little Dutchmen all in a row!

The Glee Club of this city intend shortly to perform the cantata of "The Haymakers" at Ishpeming. The society is endeavoring to purchase a piano, and is deserving of all assistance from the public. The club will doubtless ere long present other pieces in this city, and "Queen Esther" is likely to be among the first.

DURING the storm of Tuesday night lightning struck the house of Mr. Whitehead, in the eastern part of the city. The fluid ran down the stove-pipe, and played about the stove, leaving without doing any serious damage. The inmates of the house were severely frightened, however.

WELTON, the express agent, and Doolittle, the agent of the M. H. & O. R. R., done some successful trouting between Saturday night and Monday morning. They brought home about 50 pounds.—Herald.

Happening to know of a man who was "thar," we'll bet either of the parties a box of cigars that they didn't bring home 50 ounces of trout—unless they bought them after leaving the fishing grounds. Thin! very thin!

JEWELRY.—Dr. Cyr, having re-opened the jewelry department of his business, is prepared to furnish goods in this line of the finest material and very best workmanship. It is a notorious fact that the doctor will have nothing but first-class goods in his store. His love for the beautiful induces him to carry a stock on which the profit is necessarily smaller than on a cheaper quality of goods, but he prefers offering a genuine article. He has in charge of the jewelry department Mr. Lee, a thorough watchmaker, who will give to the repairing of watches special attention. The assortment of goods at Dr. Cyr's store is well worthy the attention of intending purchasers.

NEW CARRIAGE SHOP.—Richardson & Shepley have commenced the erection of a two-story building, 32x40 feet in size, for their new carriage shop. The building is on Silver street, south of the depot and nearly opposite the former residence of J. P. Pendill. In about a month they will have their works in running order, and be prepared to build carriages, buggies and sleighs of the best style. This branch of manufacturing is an important one, and Negaunee is lucky to have it located here. Large sums of money are annually sent outside for carriages, and there is no reason why it should not be retained here. The gentlemen comprising the new firm are both practical workmen of large experience, and we know their work will be of a quality equal to the best outside work.

MIKE EXPLAINS.—Red-Handed Mike, who has been around here since his failure to come to time in his fight with Taylor, rises to explain in a letter to the Chicago Times, addressed from here under date of July 6th. Mike says:

"Please allow me to explain through your columns the real cause of the fight between Mr. James Taylor and myself falling through. About ten days before the fight was to have come off there was a large feverish headache on my right leg, which caused my leg to swell to an enormous size. I was compelled to stop training, and was barely able to be about. I was treated by one of the ablest physicians of Oconto, Wis., who pronounced my leg to be poisoned, and whose name I give to the public for reference.

Dr. Morrey, my trainer, Billy Madden, and myself kept the matter quiet, with the expectation that I might improve; but instead of getting better I got worse. On Wednesday, July 1, Madden informed my backers of my condition, stating that it was impossible for me to fight under the circumstances. Some outsiders who had capital invested on the issue of the fight, caused my arrest to protect their loss. If any one doubts my crippled condition, I refer him to the following gentlemen: Dr. Whitman, of Menominee, Mich., and Dr. Bradley, of Negaunee, Mich. The above is a true statement, as God is my judge.

Now, a word to Mr. James Taylor. He will oblige me by leaving his address at the Times office, or where he can be found, that I may have a fresh meeting with him to renew the match; for I will never let the matter rest until I satisfy Mr. Taylor and the public. Yours, MIKE O'CONNOR, alias 'Red-Handed Mike.'"

CENSUS RETURNS—THE CITY.—The following census items are taken from the returns made by Assessor Mulvey to the county clerk:

Table with 5 columns: Category, No., Single, Married, Wid. or divorced. Rows include Males over 21 years, Females over 18 years, etc.

There are two blind, 1 deaf and dumb, 1 insane, 1 idiotic, and 5 colored persons in the above number. The number of deaths is 35 and the births 95. The number of marriages is returned at 28, but from certificates on file in the clerk's office the number is shown to be much larger—though the exact figures cannot just now be given.

RICHMOND.—The following are the returns from this township:

Table with 5 columns: Category, No., Single, Married, Wid. or divorced. Rows include Males over 21 years, Females over 18 years, etc.

NEGAUNEE TOWNSHIP is reported as follows:

Table with 5 columns: Category, No., Single, Married, Wid. or divorced. Rows include Males over 21 years, Females over 18 years, etc.

Negaunee Advertisements.

Lumber! Lumber!

Having got my new

CASCADE MILL

Into successful operation, I am now prepared to receive and fill all orders for Lumber promptly and on short notice.

My lumber yard is opposite Pendill's old store, Chas. W. MURPHY Agent, Negaunee.

Orders addressed to me through the Palmer postoffice will receive prompt attention.

296-Gm LOUIS SCHWEITZER.

MINER'S BANK,

NEGAUNEE, MICH.,

D. G. STONE, Proprietor.

Current and Time Deposits received. Certificates of Deposit issued, bearing interest according to agreement. Pass Books issued, and deposits of one dollar and upwards credited, and interest allowed on average quarterly balance. Collections made on all accessible points in the United States or Europe. Local Collections made and remitted for promptly. Exchange sold, available in any part of the United States or Canada.

CORRESPONDENTS:

NATIONAL PARK BANK, New York. HENRY CLEWS & CO, New York. COMMERCIAL NATIONAL BANK, Cleveland. FIRST NATIONAL BANK, Chicago. SECOND NATIONAL BANK, Detroit. FIRST NATIONAL BANK, Marquette.

BILLS OF EXCHANGE

Drawn, payable on demand in the currency of the respective countries, for value of One Dollar to Ten Thousand or more, on the most prominent banks in the principal cities of

ENGLAND, IRELAND, SCOTLAND, FRANCE, ITALY, SPAIN, PORTUGAL, RUSSIA, POLAND, SWEDEN, NORWAY, DENMARK, GERMANY, HOLLAND, BELGIUM, SWITZERLAND, AUSTRIA, HUNGARY.

Agency

FOR THE

Cunard, Allan, Anchor, Guion, Hamburg American Packet Co., North German Lloyd, Ocean Steamer Lines.

Passage Tickets from interior towns of Europe, via principal sea ports, at lowest rates. 262-320

Negaunee Advertisement.

Real Estate, Exploration H. Gregory & Co.,

MINING Intelligence Office,

NEGAUNEE, MICH.

The subscriber has opened an office at Negaunee for the purchase of real estate, and the exploration of mineral, pine and timbered lands on the Upper Peninsula. Parties wishing to have lands examined and reported upon, either in respect to their mineral or timber resources, will be liberally treated with, and correct reports will be given in all cases. Being myself an old explorer, having spent many years in the woods, during which time I have located some of the most valuable iron lands on the Marquette Range, and being assisted by a corps of old and faithful explorers, I confidently offer my services to all who may wish to entrust their explorations to my care.

I have now for sale MINERAL LANDS, on the Marquette Range, to which I invite the attention of iron men seeking investments. Also PINE LANDS in various parts of the Upper Peninsula, selected with the greatest care, and because of their great prospective value.

Correspondence solicited, and the best of references given if required.

297y1 WM. C. MCCOMBER.

Legal Notices.

RAY FURNACE COMPANY. ANNUAL MEETING.—The annual meeting of the Ray Furnace Company will be held at the company's office in Marquette, Michigan, at 2 o'clock P. M., on Monday, July 29, 1874, for the election of directors for the ensuing year, and the transaction of any other business that may properly come before the meeting. By order of the Board of Directors, E. P. WILLIAMS, Secretary.

Dated Marquette, June 17th, 1874. 309w4

MUNISING IRON COMPANY.

ANNUAL MEETING.—The annual meeting of the stockholders of the Munising Iron Company will be held at the company's office in Marquette, Michigan, on Monday, July 20th, 1874, at 10 o'clock A. M., for the election of officers and the transaction of any other business that may properly come before the meeting.

Dated Marquette, Mich., June 17th, 1874. 309w4

MORGAN IRON COMPANY.

STOCKHOLDERS MEETING.—The regular annual meeting of the stockholders of the Morgan Iron Company will be held at the office of the Company in the city of Marquette, Mich., on Saturday, the 25th day of July next, at eight o'clock A. M., for the election of directors of the Company, and for the transaction of any other business which may occur. By order of the Board of Directors, S. P. ELY, Secretary.

Marquette, Mich., June 10, 1874. 309w3

WASHINGTON IRON COMPANY.

STOCKHOLDERS MEETING.—The regular annual meeting of the stockholders of the Washington Iron Company will be held at the office of the Company, in the city of Marquette, Michigan, on Saturday, the 25th day of July next, at 2 o'clock P. M., for the election of Directors and the transaction of any other business.

By order of the Board of Directors, S. P. ELY, Secretary.

Marquette, Michigan, June 10th, 1874. 309w3

REPUBLIC IRON COMPANY.

STOCKHOLDERS MEETING.—The regular annual meeting of the stockholders of the Republic Iron Company will be held at the office of the Company, in the city of Marquette, Michigan, on Saturday, the 24th day of July next, at 11 o'clock A. M., for the election of directors and the transaction of any other business.

By order of the Board of Directors, S. P. ELY, Secretary.

Marquette, Michigan, June 10th, 1874. 309w3

CHAMPION IRON COMPANY.

STOCKHOLDERS MEETING.—The regular annual meeting of the stockholders of the Champion Iron Company will be held at the office of the Company, in the city of Marquette, Mich., on Saturday, the 23rd day of July next, at four o'clock P. M., for the election of directors and the transaction of any other business.

By order of the Board of Directors, S. P. ELY, Secretary.

Marquette, Mich., June 24, 1874. 310w4

MICHIGAN IRON COMPANY.

STOCKHOLDERS MEETING.—The regular annual meeting of the stockholders of the Michigan Iron Company will be held at the office of S. P. Ely, in the city of Marquette, Michigan, on Saturday, the 24th day of July next, at 11 o'clock A. M., for the election of directors and the transaction of any other business.

By order of the Board of Directors, H. J. COLWELL, Secretary.

Marquette, Mich., June 24, 1874. 310w4

LAKE SUPERIOR IRON COMPANY.

THE ANNUAL MEETING of the stockholders of the Lake Superior Iron Company will be held at Marquette, Michigan, on Saturday, the 25th day of July, 1874, at ten o'clock A. M., to elect Directors for the year ensuing; to act upon an amendment of the first section of the by-laws, providing that hereafter the annual meeting shall be held at the office of the company in the city of Boston; to make such changes in the articles of association as the stockholders shall see fit, if any; to amend and authorize such conveyances of all the whole or any part of the property, real and personal, of the whole or any part of the stockholders shall see fit, if any; to do such other acts, with reference to the corporate property and affairs as the stockholders shall see fit, if any; and to provide for auditing the Treasurer's accounts, and for any other business that may legally come before them. By order of the Board of Directors, A. C. TENNEY, Secretary.

Boston, June 15, 1874. 310w4

EXECUTION SALE.

By virtue of a writ of fieri facias, issued by the Circuit Court for the county of Marquette, to me directed and delivered, wherein Charles A. Anderson is plaintiff, and August Johnson is defendant, against the goods and chattels, lands and tenements of said defendant, for the sum of one hundred and sixteen dollars and cents damages, and ten dollars costs, I have levied upon all the right, title and interest of said August Johnson in and to the following described lands, situated in the city or town of Marquette, county of Marquette, State of Michigan, to wit: Lots number one hundred and five (105) and one hundred and six (106) in the city of Marquette, Michigan, according to the plat of said village, recorded in the Registry of Deeds of said county, in Liber 'J' of deeds, at pages 308-9, to which reference may be had. And I shall sell by public vendue to the highest bidder, on Monday the 27th day of July, A. D. 1874, at 2 o'clock in the afternoon of that day, at the front door of the court house in the city of Marquette, in the county aforesaid, all the right, title and interest of said defendant, August Johnson, in and to the said premises, their hereditaments and appurtenances, to satisfy said execution and the costs and expenses allowed by law. JACOB DOLFF, Sheriff.

Dated, June 8th, 1874. 308-7w.

MORTGAGE SALE.

Default having been made in the conditions of a mortgage made by Abigail Brockington to Nellie E. Maynard, dated the fifteenth day of November, A. D. 1871, and recorded in the office of the Registry of Deeds of Marquette County, Michigan, on the sixteenth day of November, A. D. 1871, at four o'clock P. M., in Liber 3 of mortgages, on pages 367-8, and no proceeding or suit having been instituted at law or in equity for the foreclosure of said mortgage, upon which mortgage there is claimed to be due at the date of this notice the sum of seven hundred and forty dollars and seventy-one cents, besides an attorney's fee of fifty dollars, provided for in said mortgage, notice is hereby given that, in pursuance of the power of sale contained in said mortgage, I shall, on the 7th day of September, 1874, at 10 o'clock in the forenoon of said day, at the front door of the Marquette county court house, in the city of Marquette, in said county, bring the place for holding the circuit court for said county, foreclose the said mortgage, pursuant to the statute in such cases made and provided for by a sale at public auction of the premises described in said mortgage, to-wit: The lots Nos. twenty-five and twenty-six (25 and 26) in Ferry & Vaughn's addition to the village (now city) of Marquette, in said county, and the lot No. three (3), in block No. sixteen (16), on Lincoln street, in that part of the city of Negaunee, in said county, known as the Pioneer Iron Company's plat, which both of said plats or additions are recorded in the registry of deeds of said county of Marquette, to which records for further particulars, reference is hereby made, to satisfy the amount due upon said mortgage, with said attorney's fee, interest and costs of foreclosure.

NEELIE E. MAYNARD, Mortgagee.

JACOB DOLFF, Sheriff Marquette county.

M. H. MAYNARD, Attorney for Mortgagees. 308-321

Doors Sash &c.

Manufacturers of and Wholesale and Retail Dealers in

DOORS, SASH, Blinds, Newel Posts, Balusters, Stair Rail, Mouldings, Brackets.

Turning and Scroll-Sawing DONE TO ORDER. Flooring, Ceiling, Siding, Shingles.

Lath, Lumber, Stone Window Sills,

Galvanized Iron Cornice and Window Caps, Cast Iron Window Sills, Iron Columns and Girders, Terra Cotta Keys, Carbels and Window Caps.

Brick Lime, Plaster and Hair,

And all other kind of Building Material constantly on hand.

We are better prepared than any other firm in the county for taking contracts for buildings of every description, at any point in the county. Parties wishing estimates can depend upon getting low and accurate figures. Special attention paid to jobbing of all kinds; banking offices, insurance offices and store fixtures, a specialty, of the best material and workmanship. Plans, specifications, details, &c., furnished on short notice. All orders, by telegraph or otherwise, will receive prompt attention. All goods put on cars free of charge.

H. GREGORY & CO.,

Manufacturers and Builders, office and factory on Main street, successors to J. W. Wycokoff & Co.

H. GREGORY. J. P. RIDEELL. J. JOHNSON. 294-345

Miscellaneous.

No Further Use for any Soap in the World

FOR CLEANING PURPOSES

STRONG'S PATENT DETERGENT!

The Housekeeper's Friend.

A newly invented article, warranted not to contain acids, and will not injure the hands; on the contrary, makes them soft.

It will clean painted and hard-finished walls or ceilings, wood and marble floors, also mantel s, oil cloths, painted wood work, glass of all descriptions, silver and plated ware, kitchen utensils, and greasy dishes. Is invaluable in washing clothes, woolen blankets, removes oil and grease from machinery, butcher's blocks and counters. In fact, everything where dirt and grease is to be removed.

It will not take stains out of metal, for if it did, it would show there was acid in it of which there is not a particle, and if there were, it would cut your varnish or paint (which it does not, nor does it do any injury to anything to which it may be applied).

It is a Perfect Enemy to Grease and Dirt.

MURRAY & ROBBINS.

SOLE AGENTS FOR MARQUETTE.

No housekeeper should be without this valuable Cleanser. '65-357

REPORT OF THE CONDITION

OF THE First National Bank OF MARQUETTE,

At Marquette, in the State of Michigan, at the close of business June 26th, 1874.

Table with 2 columns: Category and Amount. Rows include Loans and discounts, Overdrafts, United States bonds, etc.

RESOURCES.

Table with 2 columns: Category and Amount. Rows include Capital stock paid in, Surplus fund, etc.

LIABILITIES.

Table with 2 columns: Category and Amount. Rows include State of Michigan, Bank of Marquette, etc.

STATE OF MICHIGAN, ss. I, C. H. Call, Cashier of the First National Bank of Marquette, do solemnly swear that the above statement is true to the best of my knowledge and belief.

C. H. CALL, Cashier.

Subscribed and sworn to before me this 6th day of July, A. D. 1874.

M. H. MAYNARD, Notary Public, Marquette Co., Mich.

Correct—attest: PETER WHITE, H. B. MATHER, C. H. CALL, Directors.

312w1

Lumber, Lath, Shingles, &c.

EAGLE MILLS.

Having started for the season of 1874, the proprietors are prepared to fill all orders for

LUMBER, LATH, Shingles, Sash, Doors, Blinds, Mouldings, &c.,

At the lowest rates, and on short notice. We shall make a specialty of BILL LUMBER AND TIMBER.

Which we can deliver at any point on the Marquette, Houghton & Ontonagon Railroad. Having lately put in operation one of BUCH'S HIGH PRESSURE STEAM LUMBER SEASONER, we are prepared at all times to fill orders for SEASONED LUMBER on short notice.

We shall endeavor to deal in a straightforward manner with all, and hope thereby to secure the patronage of those desiring anything in our line. Orders left at the mill, or directed to us at Morgan post office, are promptly attended to. (297y) CHASE, READ & BARNUM.

LUMBER.

Having completed my new Circular Saw Mill, and added to it a

Flooring, Lath & Siding Mill

I am prepared to furnish all the above articles, also

SHINGLES, AT LOWEST PRICES. I am also

Agent for the American Fence, A combination of wood and iron—good, cheap and durable. Also agent for the

Best Patent Roofing in Use.

All kinds of hard wood lumber furnished. Will take contracts for building and furnish lumber on time, on good, endorsed notes. Have a large stock of lumber on hand, and am prepared to fill orders same day as received.

DEALER IN REAL ESTATE.

Having always on hand ten or fifteen dwellings to rent or sell.

Yards and Office on BUFF STREET. EDWARD FRASER. 393-343

News Depot and Museum.

FINEST ASSORTMENT OF



LAKE SUPERIOR Specimens, Curiosities, Amethysts, Chlorastrolytes, &c., on the Lakes at

T. Meads



NEWS DEPARTMENT. FREE MUSEUM.

AND VARIETY STORE!

Large stock of Boots, Shoes; Hats, Caps; Clothing, &c., &c. JEWELRY, Notions, Fishing Tackle, Gunther's and other Candy, Tobacco, Cigars, and a thousand and one things in constant demand.

Everything Selling at Lowest cash figures to suit the times. 49 FRONT STREET, Nearly Opposite the Post Office, MARQUETTE, MICH.

Iron Money, CERTIFICATES OF DEPOSIT, GREENBACKS.

Or any other evidence of indebtedness, issued by any responsible company, will be RECEIVED

For the first payment on lots purchased of me. Long time at low rate of interest given on the balance of payment. HIRAM A. BURT. 292y

HUMORS OF A MEETING OF ENGINEERS.

Mr. R. W. Raymond, after attending the late meeting of the American Institute of Mining Engineers, held at St. Louis, writes to his paper, the Engineering and Mining Journal, New York, as follows. [The G. from D. is Mr. E. C. Pechin, of the Danbar (Pa.) furnace.]

PULLMAN CAR, ROCKY MOUNTAINS, June 5, 1874

The summit of the Rocky mountains has always been accounted a lonesome place; but it never seemed so particularly downright lonesome as it does to-day, when I reach its barren height at one step, so to speak, from the brilliant society of the Institute of Mining Engineers, lately gathered at St. Louis. One thing only reconciles me to the sad fate which made me say good-bye to that jolly, jolly crowd, and travel off into the sunset, like Hiawatha, all alone on my little bark canoe—namely, by thus suddenly eloping to the Pacific coast, I leave the secretary to get up the entire report of the proceedings. It is his duty, and he will. But he will conscientiously leave out all the jokes of the 6*nt' from D*nb'r, thus shortening the proceedings by at least one-half, and depriving them of all their glow—in a word, making them cold, short, and not the rail thing at all. The G. from D., in his new role of "retiring vice-president," certainly did condescend with an amount and a (so to speak) perpetuity of juster unusual even for him. Only the proprietor of a furnace which has been eighteen months in blast, had two tumble-downs, one explosion, and no end of small accidents, and yet, by Jove, sir, never made a pound of white iron—only such a skillful pig controller would dare to attempt to keep up such a steady hot-blast of wit, satire, humor and fun, as did the G. from D. from the time he embarked at Pittsburgh the outward-bound party to the time he was gently placed in the cars at Indianapolis, homeward bound, his great soul overcome at last by the pang of parting from the Pr*s'd'nt. The latter individual, who knows him well, and imitates him feebly from afar, others to back him against the world to make more jokes in one place or one joke in more places than any other person, past or present, unless 'tis Scholastikos in the Greek reader.

Scarcely less enlivening was C*x, of Indiana. If the State of Indiana possessed nothing in the world but her natural resources and that one man to make them known, her bonds would be above par, and the kings of the earth would be coming in procession to view her wonders in block coal, caves, schoolm*ams, coffin factories (for the dead people of other States) etc, etc. Prof. Cox affords a capital illustration of the effect that can be produced by one earnest and enthusiastic worker. But as Barnum used to say, "You're a fool to advertise unless you've got a good thing;" and all the Professor's eloquence would be wasted but for the circumstance that Indiana really is as promising a State as he makes her out to be. The State ought to set up in front of the new capitol a statue of C*x, in a long duster; but tipped genially on the back of his head; a lump of block coal under one arm; a bandanna full of fossils under the other; hammers and things occupying all available fingers; a nose, engaged in indicating by a sweeping gesture the boundless prairie-horizon; a pair of keen, merry eyes, that can see the point of any joke, but never lose sight of the interests of Indiana; and a map hanging by his side, inscribed with circles concentric about Indianapolis, from which it may be clearly seen that by going to Indianapolis first, you can go anywhere you like afterwards. (The argument is fallacious; if you go to Indianapolis, and C*x gets hold of you, you won't want to leave. So all these railway facilities are mere mockeries.)

But I shall never get on at this rate. There were seventeen or eighteen distinguished members in the one train that left New York on Monday afternoon, May 25. That slight fluctuation as to date in the Bulletin and editorial columns of the Journal had, after all, a most salutary effect. A dozen heroic souls, who would not otherwise have dreamed of going to St. Louis, were spurred by the thought that, what with the distance, and the expense, and Raymond's performances about the date, there would certainly be a fizzle on the banks of the Mississippi, unless they took it in hand. It was beautiful to see them come, dropping in by ones and twos at various stations, supposing themselves members of a forlorn hope, to be greeted with uproarious applause and laughter from the goodly company already on the train. Most surprising and most joyful incident of all was the appearance of the beloved and venerable David Thomas, the first president of the institute, whose youth seems to be renewed by association with his younger fellow-members, and who endured the fatigues and enjoyed the pleasures of the St. Louis meeting and its excursions as lightly and as heartily as any younger set of them all.

Such busy men as John Fritz, Mickle, John Thomas, Frank Firmstone, Hearne, and other managers of iron works, could scarcely have been expected to leave home for so long a trip. But, no doubt, the dullness of the market permitted them this relaxation; it is an ill wind, etc., etc. One was inclined even to be grateful for a commercial depression that lent so much interest to the debates at St. Louis. But the meeting is over now; and the depression is respectfully notified that it need not continue on our account.

The sessions were, indeed, very interesting. As the G. from D. remarked, while occupying the chair at one of them, they paid the whole cost of the trip. He seemed to be a little less confident than usual (as was natural, the cost of the trip being greater than usual), and even fell back on the president as authority for the statement. But it was not necessary. The word of the G. from D. is at all times sufficient; and before the excursions closed he was everywhere declaring, on his own hook entirely, that this meeting was "the biggest thing yet." So it was. It is true, the remark has been made at every previous meeting of the institute; and it makes one tremble to reflect that this thing can't go on improving at this rate much longer. It will burst like the furnace at D*nb'r. But whatever he said of the past or future, the G. from D. is certainly right. The St. Louis meeting was a grand success in every particular. Messrs. Potter and Gage, the local committee of arrangements, are entitled to great credit for the activity and skill with which they provided against all contingencies, suited everybody's wishes, and carried out their plans for the entertainment of all. They were heartily seconded by the citizens of St. Louis, and particularly by the civic authorities, the officers of literary and educational institutions, and the proprietors of railroads, industrial establishments, etc. Mayor Joseph Brown, Chancellor Elliott, of Washington University; Hon. Thomas Allen, President of the Iron Mountain railroad, who made the wel-

coming address; Messrs. Talmage and Wells, Superintendent and Assistant Superintendent of the Atlantic & Pacific railroad; Ferguson, of the Vulcan Iron company, and Maxon of the St. Louis Iron company; Walsh, of the Pilot Knob Iron company; Harrison and Loker, of the St. Louis Smelting and Refining company, and Vogel, of the Carondelet Zinc works, should be especially remembered though in this hasty enumeration some have doubtless been omitted who should equally be borne in mind.

The weather was delightful, except for half an hour one afternoon, when a terrific gale and thunder storm swept over St. Louis, doing considerable damage. Among other things, it bent the great cross on the top of the Cathedral to an angle of 45 degrees with its former position. This gave rise to the remark, by the G. from D., that "that was evidently a cross between the vertical and the horizontal." (I wish I could get fairly started in a serious vein! Just as soon as I have made a beginning, by alluding soberly to the weather, or whatever, some of that gentleman's remarks get into my head, and I go off on a tangent at once. You see, he makes so many remarks!)

There were several important novelties introduced to the institute in the papers read at this meeting. Eckley B. Coxe's safety-plummet-lamp was one which attracted deserved attention. As Mr. Coxe remarked, this lamp is not for use where fire-damp is known to exist in large quantities; the way for the surveyor to treat such places is to pack up his instruments and get out of the mine. But where there isn't any fire-damp, yet there might be some for all you know—that is the place for Mr. Coxe's pretty and useful lamp. (Oh, dear! now I have got to stop and repeat a remark of the G. from D. As he saw the inventor of the plummet lamp amicably assisting the champion of Indiana to handle a trunk which probably contained one clean shirt and half a ton of fossils, he said: "A clear case of Box and Cox." To think of his doing that all alone, and so often, too! Never any white iron; at the very worst, it is non-matted!)

MONTHLY REPORTS.—The following statement shows the tonnage at the different ports in the district of Superior for the month of June—so far as received:

Table with columns: No., Tonnage, Men. Rows for Side-wheelers, Propellers, Schooners, Bark, under MARQUETTE—ENTERED, HOUGHTON—ENTERED, ESCANABA—ENTERED, ONTAGON—ENTERED, SUPERIOR—ENTERED, SAULT STE. MARIE—ENTERED, L'ANSE—ENTERED, DAYFIELD—ENTERED, MEMONINEE—ENTERED, FOREIGN TONNAGE.

Table with columns: No., Tonnage, Men. Rows for Side-wheelers, Propellers, Schooners, Bark, under ESCANABA—ENTERED, ONTAGON—ENTERED, SUPERIOR—ENTERED, SAULT STE. MARIE—ENTERED, L'ANSE—ENTERED, DAYFIELD—ENTERED, MEMONINEE—ENTERED, FOREIGN TONNAGE.

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action of the grangers of Hennepin county, Minnesota, in informing Gov. Davis that they will not contribute from the grange fund for the relief of starving farmers, but advise him to take the necessary fund from the State treasury.

—A leading legal journal thinks the effects of the new bankruptcy law will be to put the collecting machinery of the State courts again in motion, and to distribute the collecting business of the United States, which has been centralized in the large cities where Federal courts were held, and send it to the county seats of the various States—a result by no means to be deprecated or deplored.

—The Philadelphia North American makes the pertinent suggestion that a very large part of the clamor that is raised in reference to the indebtedness of the Southern States is intended to "make a case upon which a demand can be based that the United States government shall assume and pay the bonds."

—The public is to know what Beecher did. Mr. Tilton replies to the challenge contained in Mr. Beecher's note to the investigating committee by another note, in which he declares his intention to make statements, under oath, of all the circumstances of the mysterious offense committed against him by Mr. Beecher.

—The recent rains extended over a large area of country, especially over the principal crop region of the Northwest, and as far west as Kansas. They restored the growing crops of all kinds to the freshness which the sun was fast burning out of them. An amount of money not easily estimated was saved by this timely irrigation.

—Says the St. Louis Railway Register: "The East St. Louis rolling mill has been lying idle for two years past, but has been leased by a co-operative company, and as soon as the necessary repairs can be made, and the boilers inspected, will commence operation. The present company claim to have contracts for re-rolling 140 miles of railroad iron. It is not their intention to manufacture new rails at the start, but will doubtless do so on the revival of business."

Miscellaneous.

TO ALL TO WHOM IT MAY CONCERN.—The subscriber hereby gives public notice that she has been duly appointed by the Honorable Judge of Probate for the county of Marquette, and assumed the trust of executor of the last will and testament of ANSON BARKOCK, late of Marquette, in said county deceased, by giving bond as the law directs. She therefore requests all persons indebted to the estate of said deceased to make immediate payment, and those having any demands thereon to exhibit the same to

CATHERINE BARCOCK, July 6th, 1874. 312w3

NOTICE TO TAX-PAYERS OF THE VILLAGE OF MICHIGAMME, MICHIGAN.—Tax-payers of Michigan village are hereby notified that general taxes levied for the year 1874, upon personal property or real estate, must be paid on or before the first day of August, A. D. 1874. All taxes then unpaid will be collected, together with the penalty for non-payment, as provided by section 7 of chapter 26 of an "act for the incorporation of villages," approved April 29th, 1873.

ANTOINE MUNCH, Village Marshal. Michigan, Mich. July 1st, 1874. 312w3

GEO. BRADLEY. WM. BRADLEY. BRADLEY & SON, BUILDERS OF

BLAST FURNACES, HOT AIR STOVES, AND ALL WORK CONNECTED THERewith.

Plans furnished. All orders promptly attended to. Twenty-five years' experience in England and America. Address P. O. Box 1125.

EVANSTON, COOK, CO., ILL. 310w4

MORTGAGE SALE.—Whereas M. T. Dunn and Maggie Dunn, of Ishpeming, Marquette county, Michigan, on the 24th day of March, 1873, made and executed a mortgage to W. I. Crandall and C. H. North, of Green Bay, Wisconsin, to secure one thousand, three hundred and seventeen (1,317) and 91-100 dollars, payable as follows: the sum of two hundred and eighty-eight (288) and 61-100 dollars in forty (40) days; five hundred and twelve (512) and 51-100 dollars in ninety (90) days; and five hundred and twelve (512) and 80-100 dollars in five (5) months after date, which mortgage was recorded in the office of the clerk of Marquette county on the 30th day of March, 1873, at ten o'clock in the forenoon, in "book 4 of mortgages, pages 28 and 34;" and the sum of one thousand three hundred and seventeen (1,317) and 91-100 dollars as principal, and one hundred and thirty-one (131) and 79-100 dollars interest, making together the sum of one thousand four hundred and forty-eight (1,448) and 70-100 dollars is due on said mortgage on the fourth day of April, 1874, the day of the first publication of this notice; and whereas, default has been made in the payment of the money secured by said mortgage, and no suit or proceeding having been instituted at law to recover part thereof, the said mortgage will be foreclosed by sale of said premises by virtue of the power contained in the said mortgage, which sale will be made by the subscriber, at public auction, at the front door of the court house, in the city of Marquette, the first day of July next, at 2 o'clock in the afternoon, for the purpose of paying the debt aforesaid and fifty (50) dollars reserved in said mortgage as a solicitor's fee, and the costs of foreclosure. The following is a description of said mortgaged premises: Lot numbered fifty-one (51) in the city of Ishpeming, according to the plat of said city recorded in the office of the register of deeds for county of Marquette aforesaid, in "book J" of deeds, page three hundred and thirty-eight (338).

Dated on the fourth day of April, 1874. JACOB DOLF, Sheriff. F. O. CLARK, Solicitor for Mortgages. 239w13

Notice is hereby given that the above mortgage sale of the above described property owned by M. T. Dunn and Maggie Dunn of Ishpeming, has been adjourned until the 20th day of August, 1874, at the same hour and place as above stated. JACOB DOLF, Sheriff. F. O. CLARK, Solicitor for Mortgages. 311w7

REPORT OF THE CONDITION OF THE Citizens' Bank AT MARQUETTE, MICH.

At the close of business June 6th, A. D. 1874. Made in accordance with sections 18, 19 and 67, of the general banking law, as amended in 1871.

RESOURCES. Loans and discounts.....\$229,720 65 Overdrafts..... 1,029 58 Cash items..... 490 24 Cash from banks and bankers..... 15,472 50 Stock and bond account..... 1,000 00 Furniture and fixtures..... 1,700 00 Fractional currency and specie..... 451 87 Legal tender notes..... 13,177 00 Small drafts of sundry mining companies..... 16,292 00 \$379,333 84

LIABILITIES. Capital.....\$150,000 00 Surplus..... 105,548 00 Dividends unpaid..... 7,500 00 Profit and loss..... 1,285 84 \$379,333 84

I do solemnly swear that the above statement is true to the best of my knowledge and belief. J. M. WILKINSON, Cashier. Subscribed and sworn to before me this 8th day of July, 1874. FRED. M. STEELE, Notary Public. 312w4

J. FIELDHOUSE. GEO. N. DUTCHER. FIELDHOUSE & DUTCHER, MANUFACTURERS OF

WROUGHT IRON PIPE, AND DEALERS IN FITTINGS, GLOBE VALVES, BRASS GOODS, PORTABLE AND STATIONARY STEAM ENGINES,

STEAM PUMPS, ROOT'S BLOWERS AND EXHAUSTERS. Agents for Warren's Patent Governor OFFICE AND WORKS, 109 SOUTH CANAL STREET, CHICAGO.

CRANE BROS. MANUF. COMPY. ESTABLISHED 1855. INCORPORATED 1865.



PRINCIPAL WORKS: On Jefferson, Des Plaines and Fulton Streets. GENERAL OFFICES AND SALESROOMS: 10 North Jefferson Street, CHICAGO.

R. T. CRANE, President. S. W. ADAMS, Secretary. C. S. CRANE, Vice-President. J. W. SKINKLE, Treasurer.

Wrought Iron Pipe, Steam & Gas Fittings, Brass and Iron Goods, Malleable Iron Castings, STEAM WARMING AND VENTILATING APPARATUS. CRANE'S STEAM ELEVATORS FOR PASSENGERS AND FREIGHT. CRANE'S PATENT HOISTING ENGINES, For Blast Furnaces, and Coal, Iron and other Mines. STATIONARY STEAM FIRE ENGINES, STEAM PUMPS, &c., &c., &c. Send for Descriptive Circulars. 308yl.

Mining, Mill Machinery, &c. LIBERTY IRON WORKS. FRASER, CHALMERS & CO. Successors of EAGLE WORKS MANUFG. CO. MANUFACTURERS OF

Steam Engines, Boilers, Stamp Mills, Crushing Rollers, Patent Stamp Shoes, Rock Buckets, Steam, Cornish And Mining Pumps, and ALL DESCRIPTIONS OF HOISTING AND COPPER MINING MACHINERY. Silver and Gold Mills of most Approved Pattern, Amalgamating Pans, and Settlers, Agitators, Concentrators, Retorts, Bullion and Ingot Moulds, Roasting and Smelting Furnaces, Slag Pots and Cars, Circular Saw Mills, AND GENERAL MACHINERY.

Having been for the past 30 years Partners and Managers of Eagle Works Manufacturing Company, (these works being now closed,) and having purchased all their large stock of machinery Patterns, embracing the most complete and extensive set of Engines, Gears, Pulleys, and miscellaneous Patterns in the North West, we are prepared to continue our business in all its branches, with unequal facilities to fill orders for all descriptions of work and repairs without the usual delay and expense in getting up new patterns. ALSO AGENTS AND DEALERS IN

Blake Crusher, Steam and Centrifugal Pumps, Blowers, Stillwell Heater, Wire Rope, Wrought Iron Pipe and General Mine and Mill Supplies, 139 to 145 FULTON STREET, bet. Union and Halsted, CHICAGO. Please address FRASER, CHALMERS & CO., Chicago, Ill.

Boots and Shoes. NOW LOOK OUT FOR AN IMMENSE STOCK

Spring and Summer BOOTS AND SHOES AT THE

City Shoe Store! The proprietor has gone below for new goods, and will fill the store up with Ladies' and Gentlemen's Fine Wear, Children's Substantial Shoes, and Heavy Goods for the Laborer, CHEAPER THAN EVER.

Examine for yourselves. C. M. W. EARLE, Marquette, May, 1874. 267-318

MINING TWENTY... Plans notice... JACOBE... Groceries... MARQU... BALL... Att... OFFICE... D... ATT... ROTH... Cigar... AND AL... Also... JAS... RE... Corner... rooms for... to supply... tables of... 306yl... BLAC... The sub... Blacksmith... Where he... us as well... always... ing... GO TO... Entire... tremely... first-class... COCKE... At... SO... OFFICE... JOHN... IMPO... Ca... Contra... Also... Office... LAN... Ge... Having... land own... attentio... EX... Being... Deeds... abstract... to furni... Refer... J... M... GEN... Will... in the... LA... R. W... York... quette