IMPORTANT TO MILL OWNERS AND MACHINISTS.

Vulcanized Friction Board

We desire to call attention to our celebrated VULCANIZED FRICTION BOARD, as a substitute for Leather and Rubber, in Packing, and for Friction Pulleys. It is only a comparatively short time since this article was introduced, but its use is already rapidly superseding that of Leather and Rubber, on account of both its greater cheapness and greater durability, costing less than one-third the price of Leather and one-sixth that of Rubber, and wearing more than double the time. It is absolutely the ONLY article to make a good friction against iron, as it will not slip like leather or wood. It is put up in 50 lb. bundles, in the following SPECIAL sizes:

33x44 inches, 5, 6, 8 and 10 sheets to bundle.
19x29 " 20, 25, 30 and 35 sheets to bundle.
22x26 " 15, 20, 25, 30 and 35 sheets to bundle.

Nos. 5 and 6 are about ¼ of an inch thick, and are those most used, and will usually be found the most available for all purposes. For mill men and machinists, for pulleys and packing, and to founders for raising patterns, this article is almost indispensable, and in all our experience we have never found parties, who having used it, would return again to the use of wood, rubber or leather.

The following parties have used it largely, and will doubtless recommend it to all who may inquire regarding it:

FILER, STOWELL & CO.,
Founders and Machinists, Milwaukee.

W. H. HINER & CO.,
Founders and Machinists, Fond du Lac.

C. J. L. MEYERS,
Manufacturer of Lumber, Sash, Doors, etc., Fond du Lac.

C. C. PAIGE,
Eagle Iron Works, Oshkosh.

UNION LUMBERING CO.,
Lumbermen, Chippewa Falls.

EAU CLAIRE LUMBER CO.,
Lumbermen, Eau Claire.

HAMILTON, MERRYMAN & CO.,
Lumbermen, Marinette.

This is the only Board manufactured expressly for this purpose, and will be found he only one that will give perfect satisfaction.

FOR SALE BY

C. H. HAMILTON & CO.,

382 and 384 Broadway, Milwaukee.

1874 Season Arrangement. 1874

$3.00 IN FARE SAVED

BY TAKING THE

DETROIT & MILWAUKEE

RAILROAD LINE.

The Cheapest and 100 Miles the Shortest Route o

Grand Rapid, Saginaw,
Detroit, Cleveland,
Suspension Bridge, Buffalo.

NEW YORK, BOSTON

And All Points in the East.

On and after Monday, April 6th, 1874, the Steamers of thisline will leave MILWAUKEE from their dock, 68 West Water Street, daily at 9 P. M. (Saturday excepted) making direct connections at GRAND HAVEN the following morning with Trains for

DETROIT AND ALL POINTS EAST.

PULLMAN'S PALACE SLEEPING CAR ON NIGHT TRAINS
PARLOR CARS ON DAY TRAINS.

Fare $3.00 Less than any other Route.

Through Tickets for sale at all principal Ticket offices in the Northwest. Also at Company's Office 385 Broadway, Milwaukee, and on board steamers.

HARRY BRADFORD,
Ticket Agent, Milwaukee.

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Western Pass- Agent, Milwaukee.

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SAW REPAIRER AND FURNISHER.

All kinds of Saws Gummed and Straightened, and made as good as new. When sending Circulars, it is necessary to mark the log side of the saw, or send instructions in regard to it. All orders promptly attended to. Agent for Henry Disston & Co.'s celebrated Saws. A full stock of Saws constantly on hand.

HOWARD FOUNDRY AND MACHINE WORKS

TAYLOR & DUNCAN,

Manufacturers of Steam Engines.

Blowing Engines, Mill and last Furnace Machinery, Iron and Brass Castings, &c.

FORT HOWARD, . WISCONSIN.

Green Bay & Minnesota RAILROAD.

TIME TABLE IN EFFECT JAN. 3, 1875.

STATIONS.	TRAINS GOING WEST. Accom.		Pass.	
Green Bay	8 40	a.m. dp.	9 40	a.m. dp.
Seymour	11 05		10 30	
New London	2 00	p.m.	11 35	
Amherst	5 40		1 20	p.m.
Plover	6 50		1 50	
Grand Rapids	8 15	p.m. ar.	2 30	
	7 00	a.m. dp.		
Black River	12 05	p.m.	4 15	
Merrillan	1 00		5 25	
Whitehall	4 10		6 48	
Arcadia	5 35		7 27	
Winona	7 50	p.m. ar.	8 40	p.m. ar.

STATIONS.	TRAINS GOING EAST. Pass.		Accom.	
Green Bay	6 40	p.m. ar.	7 25	p.m. ar.
Seymour	5 50		5 05	
New London	4 50		2 00	p.m.
Amherst	3 30		10 40	
Plover	3 00		9 30	
Grand Rapids	2 25		8 00	a.m. dp.
			7 30	p.m. ar.
Black River	12 05	p.m.	2 40	
Merrillan	11 44		1 50	p.m.
Whitehall	9 58		10 40	
Arcadia	9 15		9 15	
Winona	8 00	a.m. dp.	6 40	a.m. dp.

Trains are run daily, Sundays excepted. Trains run on Chicago time.

CONNECTIONS:

At Green Bay with C. & N. W. R'y for Appleton Neenah, Oshkosh, Fond du Lac, Milwaukee and Chicago, and with Wisconsin Central R. R. for Milwaukee.

At Amherst with W. C. R. R. for Waupaca and Weyauwega.

At Plover with Stages for Stevens' Point.

At Grand Rapids with W. V. R. R. for Tomah and Wausau.

At Black River with Omnibus Line for Neillsville.

At Merrillan with W. W. R. R. for Eau Claire, Hudson and Stillwater.

At Winona with C. M. & St. P. R'y for St. Paul, Minneapolis and La Crosse, and with W. & St. P. R. R. for points west.

Through Tickets from all Stations to Milwaukee and Chicago, via Green Bay at same rates as via Amherst.

D. M. KELLY,
Gen'l Manager.

S. B. KENDRICK, Superintendent.

R. W. NATHAN, Gen'l Pass. and Ticket Ag't

FILES.

Among the many kinds in use, none excel and few equal in quality, those of the old and well known **"WHEELER, MADDEN & CLEMSON"** brand. They may be had from dealers almost everywhere, or in quantities direct from the manufacturers, WHEELER, CLEMSON & CO. Middletown, N. Y

Send for price list.

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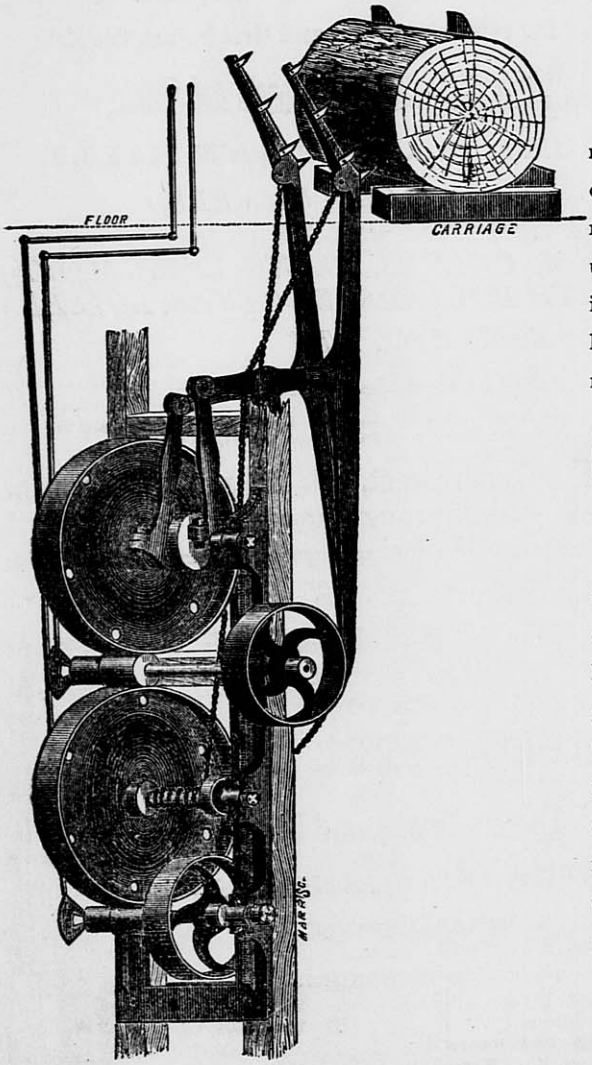
GILBERT'S
Patent Log Turner.

THE QUICKEST AND MOST ECONOMICAL LOG TURNER YET BROUGHT TO THE NOTICE OF THE PUBLIC.



The Sawyer by the movement of one lever causes the log levers to raise up against the log upon the log way and roll it upon the carriage and keep it rolling as long as may be desired. It can

Be Stopped at

Any Point.

and will hold the log or cant firmly against the knees while it is being dogged or examined by the Sawyer. By the movement of another lever he causes the log levers to fall back from the log through the floo out of the way.

Manufactured by EDWARD P. ALLIS & CO.,
Reliance Works, Milwaukee, Wis.

PRESQUE ISLE IRON WORKS

Established 1855.

The STEARNS MANUFACTURING CO., Proprietors.

MANUFACTURERS OF E. H. STEARNS' PATENT IMPROVED

Circular Saw Mills,

PATENT ROSSERS for removing Bark and Grit before the Saw,

Off-Setting, Anti-Vibrating Carriage Wheels and Track,

HEAD BLOCKS, etc., FOR SAW MILLS,

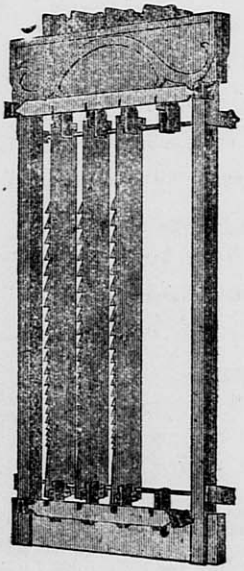
MULAY MILLS, LOG TURNERS,
GANG EDGERS, JACKERS,
SWAGING MACHINES, GANG LATH MILLS,
GANG LATH BOLTERS, ENGINES, BOILERS
ETC., ETC., ETC

☞ Send for Circulars, Price List or any desired information.

We have recently bought the entire stock and patterns of the Vulcan Iron Works of Buffalo, and are now prepared to execute orders for Engines and Boilers.

Office and Works, East Tenth Street, bet. Holland and German,

ERIE, PENNSYLVANIA.



If not called for in 10 day...

E. ANDREWS,

MANUFACTURER OF

EXTRA

CAST-STEEL SAWS

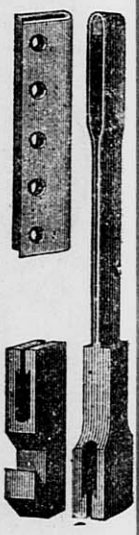
AND

Patent Hooks and Stirrups,

FOR

STRAINING GANG SAWS,

WILLIAMSPORT, PA.



REFERENCES.

DODGE, JAMES & STOKES,	Williamsport, Pa.
A. PARDEE,	Watsontown, Pa.
WRIGHT & WETHERELL,	Saginaw, Mich.
CAPT. E. B. WARD,	Ludington, Mich.
LACROSSE L. CO.	LaCrosse, Wis.
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HUNTINGDON & FRANCHOT,	St Alban's, W. Va.

500,000 ACRES OF PINE AND FARMING LANDS

FOR SALE!

The lands of the Jackson, Lansing & Saginaw Railroad Company are now in market.

They are situated along its railroad, and contain tracts of the best Pine on the Tittabawassee, Rifle, Muskegon, Manistee, Au Sable, and Cheboygan Rivers. The grant having been made before any considerable quantity of pine land had been located in the northern part of the state, it now includes some of the finest and choicest

WHITE PINE TIMBER,

AND BEST

NORWAY PINE.

The FARMING LANDS include many thousand acres of first-rate

BEECH AND MAPLE LANDS.

No better can be found, and they are well watered, and located where they will have the best railroad facilities. No section of the country offers greater inducements to the settler than the above lands.

Terms For Sale.

One-fourth down, and the remainder in three equal annual installments, with interest annually at 7 per cent. Farming lands will be sold on longer time if desired. For list of lands, further information, or purchase, apply to the undersigned at LANSING MICH.

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A valuable Saw Mill Property in Southern Michigan, consisting of Circular Saw, Patent Edger, Cut-off and Small Machinery. Engine and Boiler complete, and in good condition. Capable of

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Situated on the line of F. & P. M. R. R. also on Muskegon River with convenient Mill Yard and Boom. WILL BE SOLD CHEAP! Terms easy to a responsible party. For particulars, address

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On all Through Trains, without change.

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☞ Connecting in Milwaukee with Western Union and Wisconsin Central and other Divisions. Also other Divisions of this Road.

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Logs, Shingles, Lath, Pickets, and White Cedar Posts.

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A specialty of Bridge timbers and securing bills to order. Letters of inquiry promptly answered. Office Walker's Block. P. O. Box 153. 331s2y1

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THE NICHOLS FOUR ROLLER GANG EDGER,

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With STEEL SASH and POWER BINDERS.

Engines and General Mill Machinery,

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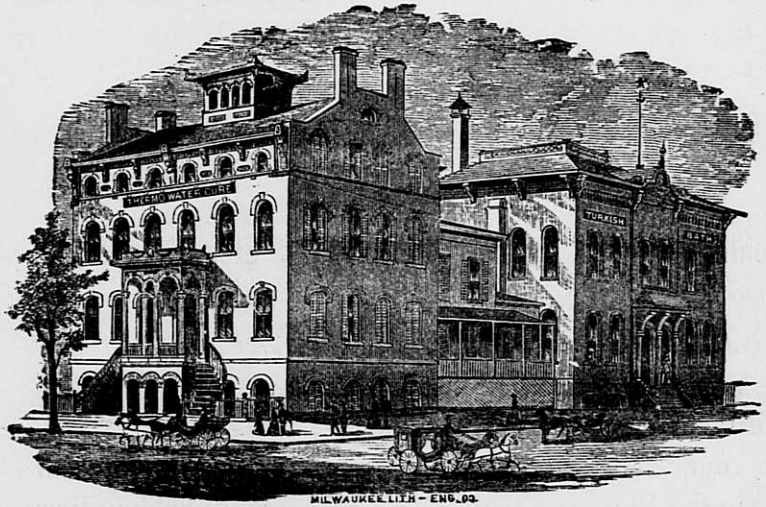

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Wausau, Marathon Co., Wis.,

A FIRST CLASS

LUMBERING ESTABLISHMENT

KNOWN AS CLARKE'S MILL.

The Mill Property is situated at Wausau and is new, and has a capacity of manufacturing Eight Million feet of Lumber, Four Million feet of Shingles and Four Million feet of Lath during the Summer Sawing Season, and can be increased to double that amount.

In connection with the same there is all

NECESSARY BUILDINGS,

SUCH AS

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Also about

8,000 *Acres of the Best Pine Land,*

On the Wisconsin River, all lying within two miles of driving water, estimated at Forty-Five Million.

In connection with this mill, there is owned, one-third interest in the Wausau Boom, which is capable of holding Forty Million. The mill is on a first-class, never failing water-power, running under twelve-foot head.

Any person desiring to invest in a first-class lumbering establishment on the Wisconsin River, are now offered a good opportunity in a well established business. For further particulars enquire of

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WATER WORKS ENGINES,

AND EVERY VARIETY OF

STEAM PUMPING MACHINERY,

Awarded Medal of Highest Honor, at Vienna Exposition, 1873.

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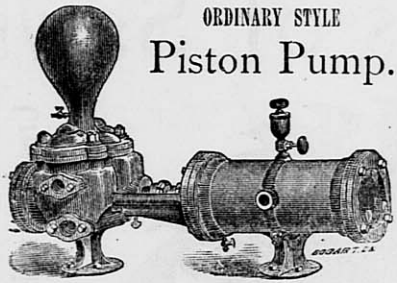

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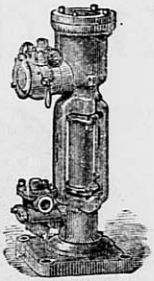

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Boiler Feeder

Works Hot and Cold Water

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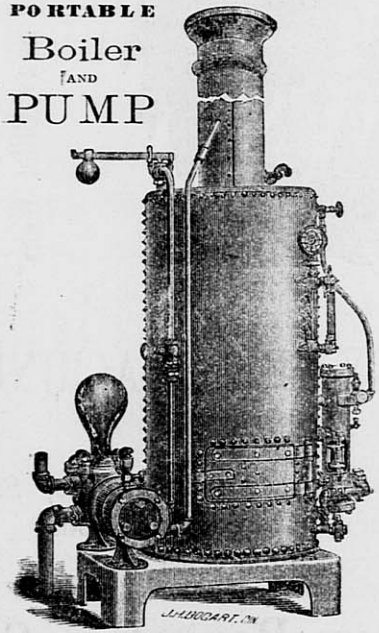
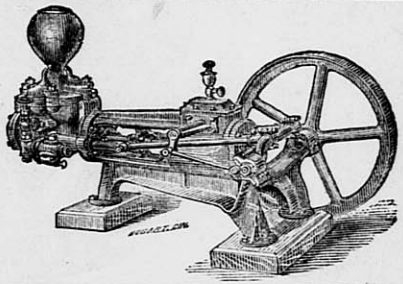
Boiler AND PUMP



For R. R. Water Stations, etc.



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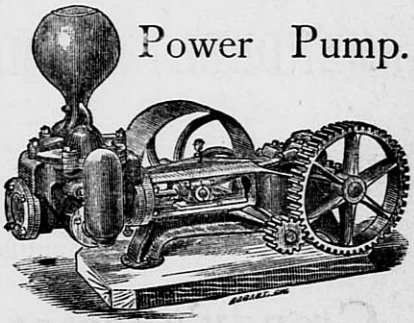
Serves for Pumping, and at the same time furnishes Power for other Work.

Power Pump.



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THE BEST SAW SET EVER MADE.

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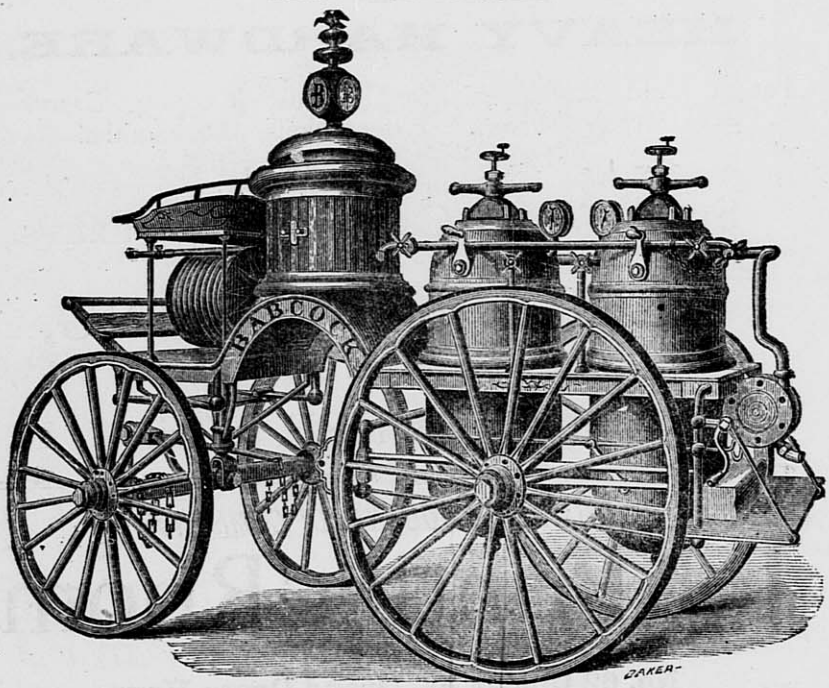

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Circular Saw Mills, Shafting, Hangers, Etc.

READ THIS! PENDULUM SLIDE—OSCILLATING GANG.

Office of C. B. BENSON, OTTER LAKE, LAPEER CO., MICH., Sept. 12, 1874.

J. B. WAYNE, Esq., Detroit, Mich.—*Dear Sir:* In response to your inquiry regarding the working of the Pendulum Oscillating Adjustable Movement for Gang Saws, as applied by you to our stock and slabbing gang—will say that I regard it as perfect. The top of lower slides being hung on pivots and bottoms being operated by eccentric from main shaft makes it easily set at any point desired, and gives the saws the perfect whip-saw motion so essential for the free, easy and quick movement of all upright saws, especially gangs. I am so thoroughly convinced of the utility of this improvement that I do not hesitate to recommend it to all who use gang saws. For the superior manufacture of gang sawed lumber I refer you to my lumber yard here. I shall be most happy to respond to all inquiries, and to show parties wishing to see my gangs. Very truly yours, S. O SHERMAN, Manager for C. B. Benson.

ALPENA, Sept. 15, 1874.—Our experience with the above mentioned movement justifies us in heartily endorsing what Mr. Sherman says with regard to it. ALPENA LUMBER CO., per Geo. Prentis, Pres't.

We are prepared to make liberal terms to all manufacturers of Gang Mills.

Apply to **J. B. WAYNE, Treas'r, Detroit, Mich.**

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A SAW MILL,

BY THE

Thousand or upon Annual Rental.

State Whether it is Run by Water or Steam, The Amount it Cuts, and the number of Hands required to Operate it.

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And ALL POINTS SOUTH and EAST, should Buy their Tickets via

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CHICAGO & NORTHWESTERN RAILWAY.

Close Connections made with all Railroads running EAST or SOUTH from Chicago.

Among the Inducements offered by this Route, are all

THE MODERN IMPROVEMENTS

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From 2 to 10 Fast Express Trains run each way Daily ver the various lines of this road, thus securing to the Traveler selecting this route sure and certain connections in any direction he may wish to go.

See that your Tickets READ VIA THIS ROUTE, and TAKE NONE OTHER.

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RAILROAD

OPERATED BY PHILLIPS AND COLBY CONSTRUCTION CO.

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BETWEEN

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ALL POINTS in the GREAT NORTHWEST

The Direct Route to the

IMMENSE LUMBER DISTRICT

On Central Wisconsin.

THE ONLY CONTINUOUS LINE BETWEEN

MILWAUKEE, MENASHA, WEYAUWEGA, WAUPACA, AMHERST and STEVENS POINT

☞ Between Stevens Point and end of track a train runs each way daily, (Sunday excepted.)

NO CHANGE OF CARS

BETWEEN

Milwaukee and Green Bay

AND

Milwaukee and Stevens Pt.

COMMENCING MAY 1st, 1874, all trains of this Road will arrive at and depart from

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REED ST., SOUTH SIDE.

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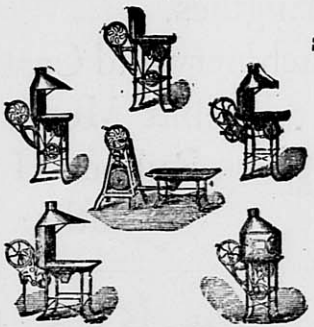

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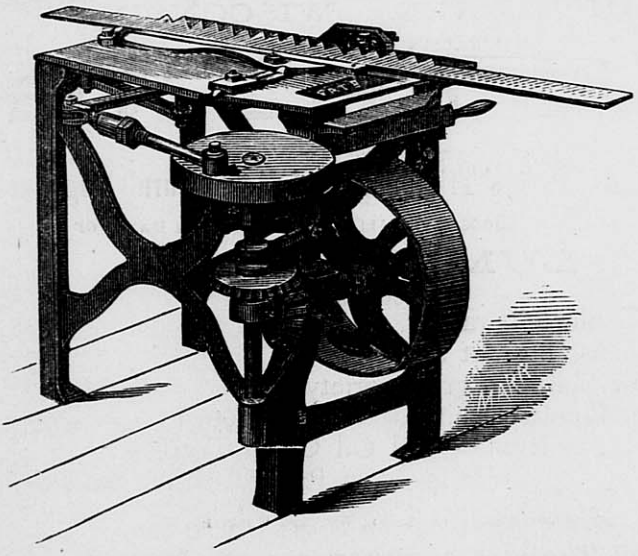

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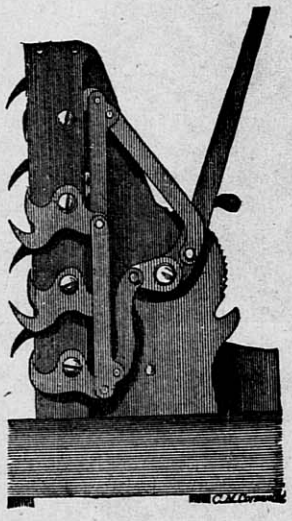

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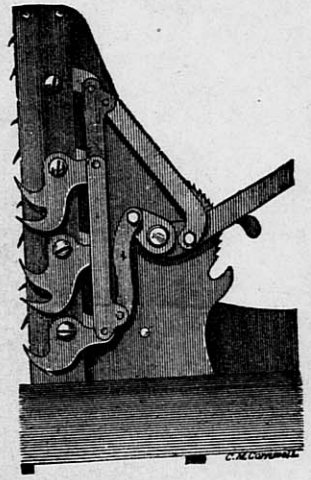

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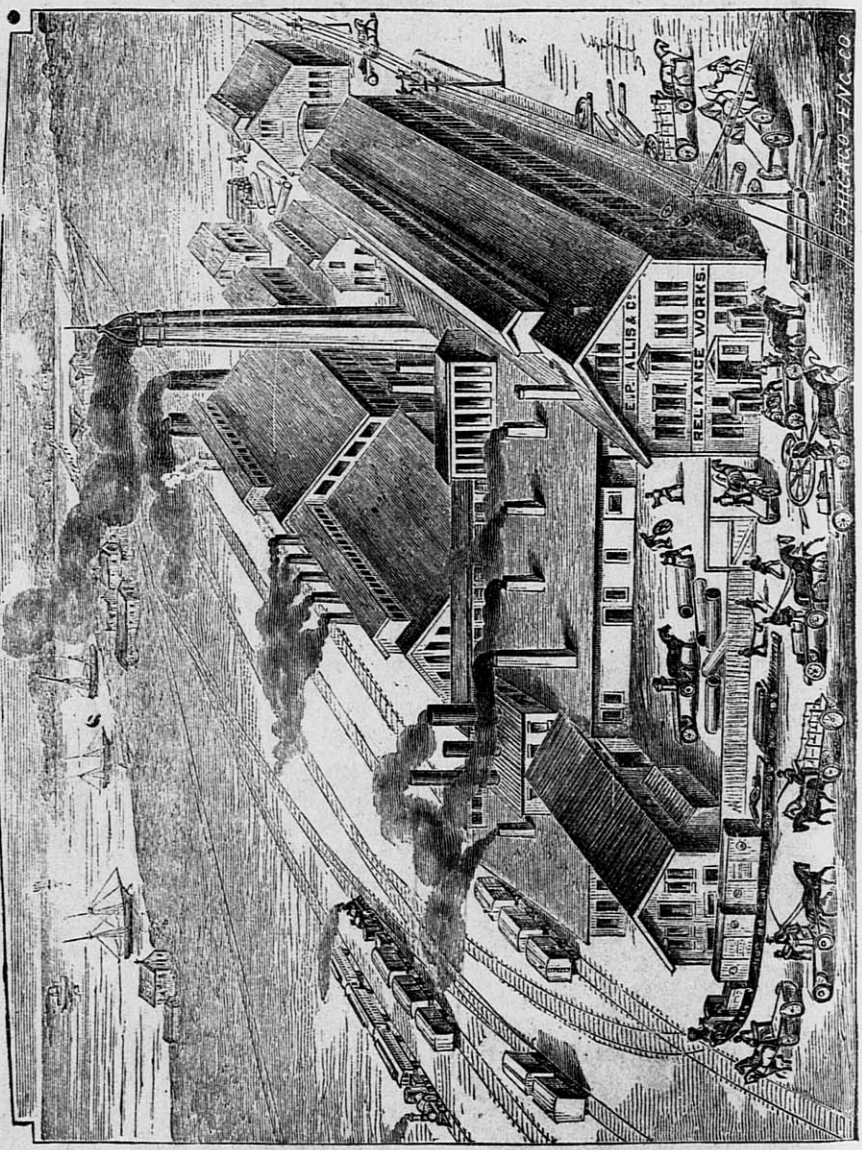

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