MONDAY MORNING, OCT. 21, 1861.

Paper Duties in England.

The bill abolishing the Paper Duty in Great Britain went into effect on the first of October. The manufacture of news and book paper is now free of duty, the same as in the United States. The cost has been reduced something like four cents on the pound, and publishers of newspapers are reducing their subscription terms to something like the American standard. Penny daily papers are starting up in all the large towns—the penny being nearly equal to two cents of our currency. The weekly sheets are reducing their price. The Weekly Times (no relation of the Thunderer) announces that its circulation, since the reduction of price on Sept. 1, to a penny, has reached the enormous amount of 350,000 copies. The Weekly Times is a radical paper, strongly Republican in its sentiments, and opposed to the union of Church and State and the system of primogeniture and landed aristocracy. It advocates "Manhood Suffrage," vote by ballot, and equal Parliamentary districts. Its immense circulation, which is double that of the New York Weekly Tribune, shows how wide spread must be Republican ideas among the masses of the English people.

Newspapers will multiply enormously in England, in consequence of their future cheapness, and the more they circulate the more will liberal and Democratic ideas be diffused among the people. R. Hoe & Co., of New York, the builders of the lightning rotary presses, will reap a fortune from the repeal of the paper duties, as it will quadruple their orders for fast presses. They now supply all the leading British newspaper establishments.

Origin of the Hat.

We owe the hat, as we owe most of our manufactures, to Asia. It was in Asia that men first learned the art of felting wool, so as to compose the substratum of the fabric. Wool, so long as it contains the natural yolk or animal grease, refuses to felt; that is, its fibres will not mat together into a compact and close grained mass, such as constitutes felt. When the yolk has been extracted by a chemical process, the wool has a tendency to interlace its fibres, and to adhere firmly to the union thus formed; and from a very remote period this secret was possessed by the Orientals. The hats which are constantly affixed to in Scripture—those, for instance, which were bound upon the heads of Shadrach, Meshach and Abednego, when they were cast into the Assyrian furnace, were genuine hats, but probably adorned by turban cloths wound about them. I have seen the self same hats—tall, narrow cylinders of grey felt, surrounded by a handkerchief or cloth, on the heads of the Jews of Asia. Nor was the use of the hat a Hebrew monopoly. The Kurds, Persians, Armenians and some tribes of Turks and Tartars wear the hat, as their fathers did in Saladin's day. The high lambs-wool bonnet of the Persian is but a brimless hat, with a nap of exaggerated roughness. The Nestorian Christians of Kurdistan wear hats almost exactly similiar to a battered Irish canbeen only of a brown or dirty white color. Throughout the East, the dervishes and wandering fakirs may be known by the tall, narrow hat of light hued felt adorned by a greasy rag, and towering upwards like a chimney pot.—[Chambers' Journal.

Paper Made from Corn Leaves.

The London Mechanics Magazine states that excellent paper is now made in Europe from the leaves of Indian corn. There is one paper mill in operation in Switzerland, and another in Austria, in which paper is made from such leaves exclusively. The husks, which envelope the ear of corn, make the best quality. As we are dependent upon Europe, in a great measure, for our supply of rags to make paper, if we can obtain as good qualities from Indian corn leaves, we may yet become the manufacturers of paper for the whole world, as the greatest supply of cheap raw material is found in America. This is a subject worthy of deep attention, as we import rags to the value of about $1,000,000 annually, and paper manufactures to the value of about $1,000,000.

The same paper says that a man in England has made a discovery that paper pulp can be manufactured at less cost, by using green, instead of dry grasses, for its production. He has taken out a patent for the improvement, and he states that when grass becomes dry its silica becomes hard and difficult of solution, whereas, when it is taken green, the silica and other unfibrous substances in it are more easily separated. He takes any green plants, such as sea grasses, which are abundant and cheap, and first mashes, then steeps them in warm water, and after this he boils them in weak alkaline solution. They are now easily reduced to pulp by passing them between crushing rollers, or through the common beating engines used in paper mills. The pulp is bleached in the usual manner with chlorine.

A Novel Magnetic Tack Hammer.

The triumphs of invention have been written and sung so often that the subject has almost become threadbare, nevertheless the theme is prolific, and new schemes are developing every day; therefore let us write a little more, and sing another song to the worthy sons of genius, who are doing so much for the progress of the world in material things. The last thing out is a Patent Magnetic Tack Hammer. No more pounded fingers; no more curses on the hammer. Tack-driving is at length reduced to a science, and hereafter the world will go smoothly and free from friction so far as this important branch of domestic industry is concerned. An ingenious German has invented and patented a tack hammer that lifts its own tacks, heads up, and there they hang until driven home to their appointed duty. What a convenient thing this will be, and how many trying nibbles of the fingers and how many poundings will thus be saved to man and woman-kind by the introduction of this humane and convenient tool.—[Scientific American.

Change of Sentiment.

On the 13th of June, Captain Hollins, who was then in command of the Susquehanna, told the New York pilot who sailed with him to Boston that he was obliged to resign from the federal service, but that he "never could fight against the old stars and stripes." Hollins was in tears when he made the remark.

On the 12th of October the same Captain Hollins, in speaking of the federal fleet at the Southwest Pass, says: "After they were fast on the mud I peppered them well." Hollins was in ecstacies over this exploit.

It is presumed that "peppering" United States vessels does not mean "fighting against the old stars and stripes."

Nothing like the Southern rebellion was ever seen in Europe which did not succeed. A case cannot be recalled, within the memory of man, where an European throne kept its standing before a rebellion which had once acquired such a compass.

The Illinois Central Railroad Company are about constructing at their shops five hundred additional grain cars, which is a very good indication of the increase of their business.

A WRITER called at his printer's and accused the compositor of not having punctuated his poem, when the typo earnestly replied, "I'm not a pointer—I'm a setter."

Great Distress in Texas—The German Unionists Troubled by the Rebels.

An English merchant, who has just arrived from Texas, states that great distress exists throughout all portions of that State. At Galveston when he left provisions of every description commanded the most exorbitant prices. Great alarm existed there respecting the safety of the place, the inhabitants having heard that expeditions were fitting out to operate on the Southern coast. Several prominent gentlemen had subscribed sufficient funds, and had dispatched Col. John Sydnor and Gen. Sherman to New Orleans to purchase rifled cannon of sufficient calibre to defend the island. As it is now, he says, the fleet can bombard the town, their cannon being of too short a range to keep the vessels off the proper distance.

The German element in San Antonio is very troublesome to the rebel government, and they are compelled to keep a pretty large force stationed there to keep them from rising and taking up arms against the usurpations of the rebel oligarchy. The Germans had frequently raised the American flag, but were forced at the point of the bayonet to put it down.

Joseph Osterman, one of the wealthiest men in Texas, had committed suicide. The present political troubles is the cause assigned.

At Galveston, when he left, the gas works had been compelled to stop for want of coal, and there was but one box of candles in the town. The people were absolutely suffering for the common necessaries of life.—*N. Y. Herald*

NOTICE.—SALE OF THE PITTSBURGH, FORT WAYNE AND CHICAGO RAILROAD.—By virtue of a decree of the Circuit Court of the United States for the Northern District of Ohio, in a cause in Chancery therein depending, wherein Charles Macan and others are complainants, and the Pittsburgh, Fort Wayne and Chicago Railroad Company and others are defendants, and pursuant to auxiliary decrees of the Circuit Courts of the United States for the Western District of Pennsylvania, Indiana and the Northern District of Illinois respectively, in causes depending in Chancery in said Courts respectively, wherein the same parties are complainants and defendants respectively, as in said cause first above mentioned, the undersigned, John Ferguson and Thomas R. Walker, as Grantees in Trust and Trustees in one of the several Deeds of Trust or Mortgage upon which said decrees are founded, and also as Special Master Commissioners of said Courts respectively, duly appointed by said Courts respectively for that purpose, will sell at public auction, to the highest bidder, for cash, but for not less than the sum of $503,600, as fixed by said United States Court House in the City of Cleveland, in the State of Ohio, on the 24th day of October, A. D. 1861, between the hours of ten o'clock A. M. and four o'clock P. M. of said day, the following described property, to wit:

The Railroad of the Pittsburgh, Fort Wayne and Chicago Railroad Company, and all the rights of way therefor, the road-bed thereof, the superstructure of all sorts thereon, its water and other station houses and sheps, and all the lands and grounds connected therewith, and all tools and implements now provided to be used therein, and in constructing and repairing cars and machinery for said road, or the tract and superstructures aforesaid; together and like the depots and buildings and fixtures and structures of whatever kind or nature, and the lands and grounds connected therewith, and appurtenant to the same and operating said road and belonging or relating to and wherever situate; and all cars, engines and rolling stock belonging to said Company, including the right and franchise of said several Companies to be and act as a Corporation, to be sold as an entirety.

Said decree provide that the purchaser, upon the confirmation of the sale and the payment of the purchase money, shall hold all the property, rights, franchises and the appurtenances thereof so sold, by the same title by which they are held by said Pittsburgh; Fort Wayne and Chicago Railroad Company, and each and all of said original Companies, free from the lien of all mortgages, and free from any liability for any debts against said original or consolidated Companies, or either of them, and from all claims on account of liability, or which, for such subject, nevertheless, to the liens, if any such exist, upon any such property included in the sale, for purchase money thereof not provided by said decree to be paid out of the proceeds of the sale, or by former orders of this Court to be paid otherwise. The right of way, depot grounds and lots, and lands in the City and vicinity of Chicago, purchased by said Company since the passage of said acts, and the bridge property and other real estate of the Company at the City of Pittsburgh, are subject to mortgage liens. These will not be included in the sale, but subject to said incumbrances, no provision having been made for the payment thereof.

JOHN FERGUSON,
THOMAS R. WALKER,
Grantees, and Master Commissioners, as aforesaid.
oc20:2w3

STEAM WORKING BETWEEN NEW YORK AND LIVERPOOL.

Leading and embarking Passengers at QUEENSTOWN, (Ireland.) The Liverpool, New York and Philadelphia Steamship Company intend despatching their well-known and favorite Clyde-built Iron Steamships as follows:

CITY OF WASHINGTON.....Saturday, October 19.
GLASGOW.....Saturday, October 26.
ETNA.....Saturday, November 2.

RATES OF PASSAGE:

FIRST CABIN.....$75 to $100 | STEERAGE.....$30
do to London.....$80 to $105 | do to London.....$35
Steerage Tickets to and from Havre, Hamburgh, Bremen, Rotterdam, Antwerp, &c., at reduced Rates.

Passengers forwarded to Liverpool, Ireland, Scotland and Wales.

These Steamers have superior accommodations for passengers, and carry experienced Surgeons. They are built in Watertight Iron Sections, and have Patent Fire Annihilating Boilers.

JOHN G. DALE, Agent, 15 Broadway, N. Y., or
JOHN THOMPSON, Agent,
119 Liberty street, Pittsburgh.

Hotels.

ST. LOUIS HOTEL,

CHESTNUT ST., ABOVE THIRD,

PHILADELPHIA,

In the immediate neighborhood of the Jobbing Houses on Market, Third and Chestnut streets, the banks, Post Office, Merchants' Exchange, &c., &c.

Board per Day, $1.50.

Accommodation, when required on the EUROPEAN PLAN. *Rooms, 50 cents and upwards, per day, and Meals at a* FIRST CLASS RESTAURANT ATTACHED TO THE HOUSE. *Prices according to the Bills of Fare.*

The City Cars take Passengers from any Station TO or CLOSE TO the Hotel.

☞ English, French, German and Spanish spoken. 1y17-dcm

FRENCH'S HOTEL,

ON THE EUROPEAN PLAN.

CITY OF NEW YORK.

Single Rooms, Fifty Cents Per Day.

City Hall Square, corner Frankfort st.
[Opposite City Hall.]

Meals, as they may be ordered, in the spacious Restaurant. There is a Barber's Shop and Bath Rooms attached to the Hotel.

N. B.—**Beware of Runners and Hack men**, who say we are full.

oc27:1y4 B. FRENCH, Proprietor.

500 BBLS. PRIME N. O. MOLASSES, 125 hhds. fair good, fair and prime Sugar.
150 boxes be, 8s and 10s Lynchburg, Va., Tobacco.
50 bbls. R fined Sugar.
450 bags Rio Coffee.
50 bbls. Pennsylvania Syrup.
for sale by SHRIVER & DILWORTH,
oc22 122 Second street.

SUGARS.—Standard, Crushed, Powdered, Granulated, A and B Coffee, Refined Sugars, in store and for sale by
KEYSER & BROTHERS,
oc1 Nos 115 and 128 Wood street.

BROOM CORN BRUSH.—3 tons of a superior article of Corn Brush for sale by
oc7 HENRY H. COLLINS.

OIL REFINERS.—5 casks cheap Paint oil for all barrels, making them perfectly tight. For sale by [oc14] HENRY H. COLLINS.

FRESH LOBSTERS AND SALMON; put up in one and two pound cans, hermetically sealed, and warranted fresh, just received from Boston and for sale by JNO. A. RENSHAW,
oc1 cor. Liberty and Hand streets.

SWEET POTATOES—60 bbls. Merritts Sweet Potatoes just received and for sale by
oc8 JAS. A. FETZER,
Corner Market and First streets.

PAINTING AND GLAZING in all its branches done at short notice, by
oc10 J. & H. PHILLIPS.

CORROSIVE SUBLIMATE—100 lbs. for sale by
oc6 B. A. FAHNESTOCK & CO.

CRUDE OIL—500 bbls. just received from Oil Creek, suitable for refining, for sale by
oc7 JAMES DALZELL & SON, 69 Water st.

LUBRICATING OIL—75 bbls. No. 1 Lubricating Oil for sale by
oc7 JAMES DALZELL & SON, 69 Wood st.

APPLES! APPLES!—72 bbls. choice Green Apples received and for sale by
oc10 HENRY H. COLLINS.

CRANBERRIES—10 bbls. nice Berries just to arrive and for sale by
oc11 J. H. GANFIELD & CO.

GREEN APPLES—50 bbls. this day arrived and for sale by
oc8 HENRY H. COLLINS.

WINDOW SHADES of all descriptions; also, Bed Holland, all widths, at wholesale by J. & H. PHILLIPS,
No. 56 and 58 St. Clair street.

LIME.—150 bbls. fresh just received and for sale by [oc8] HENRY H. COLLINS.

BEANS—30 bags White Beans for sale by
oc8 HENRY H. COLLINS.

Stoves, Ranges, Grates, &c.

JAS. S. YOUNG. P. YOUNG.

YOUNG BROTHERS,

Duquesne Foundry,

Liberty st., near Outer Depot Pa. R. R., PITTSBURGH, Pa.

Manufacture MACHINE, HOT BLAST and ROLLING MILL FURNACE CASTINGS, of every description.

OIL PIPE, BOILER CASTINGS, FIRE FRONTS, GRATE BARS, WAGON BOXES, SAD-IRONS, IRONS, GRATES AND GRATE FRONTS, STOP COCK BOXES, &c., always on hand and for sale low.

Orders left with W. W. YOUNG, corner of Wood street and Diamond alley, will receive prompt attention.

ap28

ETNA STOVE WORKS.

A. BRADLEY

Manufactures every variety of

COOK, PARLOR AND HEATING

STOVES,

GRATE FRONTS, FENDERS

&c. &c. &c.

Sole Proprietor of the celebrated

PATENT GAS BURNING AND SMOKE CONSUMING ARRANGEMENTS

Office and Sales Room,
No. 4 Wood Street,
ja24:y PITTSBURGH, PA.

ALLEN, McCORMICK & CO.,

VALLEY FOUNDRY,

PITTSBURGH, PA.

Warehouse, No. 52 St. Clair st.

MANUFACTURERS OF COOK, PARLOR and HEATING STOVES, Parlor and Kitchen Grates, Hollow Ware, etc.; Steel and Glass Moulds, Rolling Mill Castings, Mill Gearing, Gas, Water and Artizan Pipe, Sad Irons, Dog Irons, Wagon Boxes, Sugar Kettles, Pulleys, Hangers, Car Wheels Couplings, and Castings generally. Also, Jobbing and Machine Castings made to order. Patented Portable Mills, with Steam or Horse Power. no12:6md

New-York Advertisements.

BININGER'S,

OLD LONDON DOCK GIN,

Gin as a Remedial Agent.
THIS DELICIOUS TONIC STIMULANT,

ESPECIALLY designed for the use of the *Medical Profession* and the *Family*, having superseded the so-called "Gins," "Aromatic," "Cordial," "Medicated," "Schiedam," &c., is now endorsed by all of the prominent physicians, chemists and connoisseurs, as possessing all of those *intrinsic* medicinal qualities (obtained by careful distillation) for which belong to an old and pure Gin. Put up in quart bottles and sold by all druggists, grocers, etc.

Dr. GEO. H. KNIERR, 140 Wood st., Agent.
A. M. BININGER & CO.,
[Established in 1778.] Sole Proprietors,
oc2:1y No. 19 Broad street, N. Y.

Petroleum & Carbon Oils.

PETRONA OIL WORKS

LONG, MILLER & CO.

Works at Sharpsburg Station Allegheny Valley Road.

Office and Warehouse 23 MARKET STREET, PITTSBURGH.

Manufacturers of ILLUMINATING AND LUBRICATING CARBON OILS AND BENZOLE.

☞ No. 1 REFINED OILS, WARRANTED NON-EXPLOSIVE, always on hand. oc12 1yd

CORNPLANTER OIL COMPANY.

R. H. DAVIS, President.
JOHN IRWIN, Jr., Secretary and Treasurer.
DIRECTORS—R. H. Davis, T. H. Nevin, J. L. Carnahan, A. Cameron, John Irwin, Jr.

PETROLEUM

Of light gravity, from the wells of the company, on Jo. Creek, in Venango county, constantly on hand and for sale.

Office at T. H. Nevin & Co.'s,
myo1ly No. 86 Wood st., Pittsburgh.

EAGLE OIL WORKS.

WIGHTMAN & ANDERSON,

REFINERS AND DEALERS IN

PURE CARBON OIL,

(Quality Guaranteed,) PITTSBURGH, PA.

☞ Our Grease and Benzole constantly on hand. Orders received for the present at CHASE, SMITH & CO.'S, 67 Water and First streets. se2:6m

Lubricating Oil,

AT THE LOW PRICE OF 25 CENTS per GALLON, constantly on hand and for sale by R. C. & J. H. SAWYER.
As to the quality, we refer to the following certificate:
PITTSBURGH, Nov 27, 1860.

MESSRS. R. C. & J. H. SAWYER: GENTS—The Lubricating Oil we are getting from you, we find to be the best for our purposes we have ever used.

THE L. S. M. R. R. CO.,
By WM. KEPP, Pres't.

Miscellaneous.

JACKSON & TOWNSEND,

PORK PACKERS

AND

DEALERS IN PROVISIONS,

No. 12 Fourth street.

Have on hand a fine assortment of Bacon, Lard and Pork, most of which is of their own cure.

SUGAR CURED HAMS, of Cincinnati and other curers.

PLAIN HAMS, with and without canvas.

SHOULDERS.

SIDES, Smoked and in dry salt.

MESS PORK, Heavy.

LEAF LARD, in bbls., firkins and pails. Put up expressly for family use, and all of their own rendering UNLARD, suitable for rolling mill purposes. au3

THE CO-PARTNERSHIP OF HOLDSHIP, ADAIR & CO. was dissolved by mutual consent on the 20th inst. The business of the old firm will be settled by the new firm of HOLDSHIP, BRYAN & CO.

The undersigned have this day formed a co-partnership, under the firm of HOLDSHIP, BRYAN & CO., in the forwarding facilities for the manufacture of CARBON OIL, and are prepared to furnish customers with the best quality of BURNING AND LUBRICATING OILS; also, BENZOLE AND OAR GREASE.

No. 1 WM. W. HOLDSHIP.
SAMUEL BRYAN.
GEO. T. McCORMICK.

PITTSBURGH, Oct. 4, 1861. oc5:6tdw

THE CO-PARTNERSHIP OF JONES & LAUTH expired by limitation on the 1st day of August, 1861. The business of said firm will be settled by the new firm of Jones & Laughlins.

LIMITED PARTNERSHIP.—The undersigned, residing in the City of Pittsburgh, have formed a limited partnership under the firm of JONES & LAUGHLINS, in the business of manufacturing and dealing in iron, (in succession to the firm of Jones & Lauth,) in which firm the general partners are Benjamin F. Jones, Thomas M. Jones, George W. Jones, Henry A. Laughlin, and Irwin S. Laughlin, and the special partner is James Laughlin, who has contributed seventy-five thousand dollars to the common stock of said partnership, which is to commence as of the 1st day of August, 1861, and to terminate on the 1st day of August, 1866.

B. F. JONES,
T. M. JONES,
G. W. JONES,
HENRY A. LAUGHLIN,
IRWIN S. LAUGHLIN,
JAMES LAUGHLIN,

September 16, 1861. se17:2m

SALE OF FORFEITED STOCK.

The following Stock in the Decotah Mining Company, forfeited for non payment of assessment of 50 cts. per share, payable on the 1st of July last, will be sold at Public Auction, by J. G. DAVIS & CO., at their Auction Rooms, on Fifth street, in the City of Pittsburgh, Pa., on the 31st day of October, 1861, at 10 o'clock, a. m., viz:

500 shares represented by certificate No 512
300 do do do do do 511
584 do do do do do 512
100 do do do do do 517
200 do standing in name of Spencer, Vila & Co.

No certificate issued.

By order of the Board of Directors.

JAMES M. COOPER,
oc20:1md Sec'y & Treas. Decotah Mining Co.

VALUABLE IMPROVEMENT

In Steam and Atmospheric Hammers.

LETTERS PATENT were granted on Sept. 4th, 1860, to Thomas Roach, for a very simple and efficient improvement in Steam and Atmospheric Hammers, whereby the full stroke of the hammer is obtained, no matter what be the thickness of the mass of iron to be hammered—thereby effecting a great increase of power where large pieces of metal are to be operated upon, and a corresponding saving of expense.

The subscribers are owners of said patent, and are desirous of selling rights to use said improvement, as well as territory under said patent. A model of said improvement is left at the office of Messrs Bakewell & Dushing, Attorneys at Law, corner of Grant and Diamond streets, where, parties interested may call and see it, and learn also the terms of license sale, &c. P. S. WEAVER,
THOMAS BEACH,
Prescott, Armstrong co., Pa.

REMOVAL.—THE PEKIN TEA STORE has been removed from No. 88 Fifth street to

NO. 50 ST. CLAIR ST.,

Four Doors from Liberty st.

ap24:tf

PROPOSALS.

PROPOSALS FOR ARMY BAGGAGE WAGONS.

QUARTERMASTER GENERAL'S OFFICE,
Washington, June 24, 1861.

Proposals are invited for the furnishing of Army Baggage Wagons.

Proposals should state the prices at which they can be furnished at the places of manufacture or at New York, Philadelphia, Baltimore, Washington, or Cincinnati, as preferred by the bidders.

The number which can be made by any bidder within one month after receipt of the order, also the number which he can deliver within one week.

The Wagons must exactly conform to the following specifications, and to the sealed list of patterns:

SIZE.—One (covered) wagon, of the size and description as follows, to wit:

The front wheels to be three feet ten inch s high, nine tenths inches in diameter, and fourteen and a quarter inches long; hind wheels four feet two inches high, hubs ten and a quarter inches in diameter, and four inches, and a quarter inches long; felloes two and a half inches wide and two and three quarter inches deep; cast iron pipe box-s twelve inches long, two and a half inches at the large end and one and seven eighths inch at small end; tires two and a half inches wide by five-eighths of an inch thick, fastened with one screw bolt and nut in each felloe, hubs made of gum, the spokes and felloe of the best white oak, free from defects, each wheel to have a sand band and linchpin band two and three quarter inches wide, of No. 8 band iron, and two driving bands—outside band one and a quarter inch by one-quarter iron thick; inside band one inch by three-sixteen ha in thickness; the hind wheels to be made and bored so that they will measure from the outside of the tire to the large end of the box six and a half inches, and front wheels six, and one eighth inches in a parallel line, and each axle to be three feet eleven and three eighth inches from the outside of one shoulder washer to the outside of the other, so as to have the wagons all to track five feet four inches from centre of the wheels. Axletrees to be made of the best quality refined American iron, two and a half inches square a. the shoulder, tapering down to one and a half inch in the middle, with a seven eighths inch king-bolt hole in each axletree; washers and linchpins for each axletree; also of linchpins one inch wide, three-eighths of an inch thick, with a hole in each end, a wooden stock four and three-quarter inches wide and four inches deep fastened substantially to the axletree with clips on the ends and with two bolts, six inches from the middle, and fastened to the bounds and tongue, (the bolster to be four feet five inches long, five inches wide, and three and a half deep,) with four half-inch bolts.

The tongue to be ten feet eight inches long, four inches wide and three inches thick at front end of the bounds, and two and a quarter inches wide by two and three-quarter inches deep at the front end, and so arranged as to lift up, the front end of it to hang within two feet of the ground when the wagon is standing at rest on a level surface.

The front bounds to be six feet two inches long, three inches thick, and four inches wide over axletree, and to retain that width to the back end of the tongue; back bounds to measure one foot eight inches long and three inches square at the front end, with a piece of iron two and a half inches wide by the eighths of an inch thick, fastened on the top of the bounds over the back end of the tongue with one half-inch screw bolt in each end, and a plate of iron of the same size tenoned up at same ends and a half inches to clamp the front bounds together, and fastened on the under side, and at front end of bounds, with half inch screw bolts through each bound, a seven eighth inch bolt through the tongue and bounds in the centre of jaws, to secure the tongue in the bounds; a plate of iron three inches wide, one-quarter inch thick, and one foot eight inches long, secured upon the inside of jaws of bounds with two rivets, and a plate of the same dimensions on each side of the tongue, where the tongue and bounds come together, a strong iron mantle, a brace of seven-eighths of an inch round iron to extend from under the front axletree, and take two bolts through each end of the bounds; same brace three-quarters of an inch round to continue to the back part of the bounds, and to be fastened with two bolts, one on each side of the bounds, and one through the tongue and bounds, a brace over front bolster one and a half inch wide, one-quarter of an inch thick, with a bolt in each end to fasten it to the bounds; the opening between the jaws of the bounds, to receive the tongue, and four and three-quarter inches in front, and four and a half in rear at the back part of the jaws.

The bind bounds four feet two inches long, two and three-quarter inches thick, and three inches wide, two feet four inches where they clasp the coupling pole, the bolster four feet five inches long, and five inches wide, by three inches deep, with steady iron two and a half inches wide, by one-half inch thick, turned up two inches at