

Business and Personal.

Charge for insertion under this head is \$1 a line.

Old Battery Zinc Bought—7c. per pound paid for old zinc battery plates...

Annealer Wanted—To take charge of the furnaces in a malleable iron foundry...

Lathes, screw-cutting, back geared, turn 12 in. dia. and 3 ft long...

Wanted—The address of manufacturers in Ohio who will manufacture and sell...

Manufacturers of small steel wares, wishing to estimate on a new article...

To Engine Builders and Boiler Makers—A practical Boiler Maker desires...

For Sale, Cheap—One 18 in. Engine Lathe, 12 ft. bed, nearly new...

Lyman's Universal Screw Cutting Table, with rule for Compound Gearing...

A Situation wanted as Foreman of a Boiler Shop, by a man of 12 years' experience...

H. Beloe, Sacramento, Cal., wishes to communicate with makers of knife sharpeners...

Inventors! I want a small saeable machine, or article of metal. Will buy the Patent...

Safe Investment.—For Sale—Big Muddy Coal, Timber, and Farm Lands...

For Best Process for Seasoning Wood, apply to Barbaroux & Co., Louisville, Ky.

Mineralogical Cabinet for Sale—A systematically arranged collection of 2,000 specimens...

Deane's Patent Steam Pump—for all purposes—Strictly first class and reliable...

For Sale—The Patent Right of Sinclair's Double-acting Ratchet Drill...

Models of all kinds made to order. All kinds of light metal work...

Electric Bells for Dwellings, Hotels, &c.—Most reliable and cheapest Hotel Annunciator...

For Sale, Cheap—Second hand Machinist's Tools. D. Frisbie & Co., New Haven, Conn.

Spinning Rings of a Superior Quality—Whitinsville Spinning Ring Co., Whitinsville, Mass.

Diamonds and Carbon turned and shaped for Scientific purposes...

Wanted—The Manufacture of "Specialties" made mostly of Wood...

I am now furnishing Iron Roofing, coated with the best Metallic Paint...

The Pickering Governor, Portland, Conn.

Portable Engines 2d hand, thoroughly overhauled at 1/2 Cost...

The Improved Hoadley Cut-off Engine—The Cheapest, Best, and Most Economical...

Mechanical Expert in Patent Cases. T. D. Stetson, 23 Murray St., New York.

Gas and Water Pipe, Wrought Iron. Send for price list to Bailey, Farrell & Co., Pittsburgh, Pa.

Forges—(Fan Blast), Portable and Stationary. Keystone Portable Forge Co., Philadelphia, Pa.

Boilers and Engines, Second Hand. Egbert P. Watson, 42 Cliff St., New York.

For Surface Planers, small size, and for Box Corner Grooving Machines...

The "Scientific American" Office, New York, is fitted with the Miniature Electric Telegraph...

All Fruit-can Tools, Ferracute, Bridgeton, N. J.

Brown's Coalyard Quarry & Contractor's Apparatus for hoisting and conveying materials...

For Solid Emery Wheels and Machinery, send to the Union Stone Co., Boston, Mass., for circular.

Lathes, Planers, Drills, Milling and Index Machines—Geo. S. Lincoln & Co., Hartford, Conn.

For Solid Wrought-iron Beams, etc., see advertisement. Address Union Iron Mills, Pittsburgh, Pa., for lithograph, etc.

Hydraulic Presses and Jacks, new and second hand. E. Lyon, 470 Grand Street, New York.

Peck's Patent Drop Press. For circulars, address Milo, Peck & Co., New Haven, Conn

Small Tools and Gear Wheels for Models. List free. Goodnow & Wightman, 23 Cornhill, Boston, Ms

The French Files of Limet & Co. are pronounced superior to all other brands...

Mining, Wrecking, Pumping, Drainage, or Irrigating Machinery, for sale or rent...

Automatic Wire Rope R. R. conveys Coal Ore, &c., without Trestle Work...

A. F. Havens Lights Towns, Factories, Hotels, and Dwellings with Gas...

Best Philadelphia Oak Belting and Monitor Stitches. C. W. Army, Manufacturer...

Temples & Oilcans, Draper, Hopedale, Mass

Buy Boulton's Paneling, Moulding, and Dovetailing Machine. Send for circular and sample of work...

Engines, Boilers, Pumps, Portable Engines. Machinists Tools. L. B. Shearman, 45 Cortlandt St., N. Y.

For best Presses, Dies and Fruit Can Tools, Bliss & Williams, cor. of Plymouth & Jay, Brooklyn, N. Y.

Hand Fire Engines, Lift and Force Pumps for fire and all other purposes...

Price only three dollars—The Tom Thumb Apparatus. A compact working Telegraph apparatus...

Rue's "Little Giant" Injectors, Cheapest and Best Boiler Feeder in the market...



E. T. C. can remove rust stains from calico by the process described on p. 148...

S. F. R. asks: If there is a certain quantity of water in a boiler...

H. L. K. asks: 1. Is an artesian well sunk in the same way and by the same apparatus...

S. T. B. says: A French chemist says: "By fabricating coke, nitrogen can be made..."

F. B. C. asks: What are ocher and amber? A. Ocher is a variety of fine clay...

M. H. R. says: To become a surveyor, is it necessary to study at a university...

H. C. T. asks: I wish to supply a tank, situated on top of a levee...

F. G. H. asks: If a toy balloon were cut loose to go whither it would be blown...

R. K. asks: The lightning rod on my house runs underground several feet...

J. J. S. asks: Is magnetic iron sand worked practically at any place in the United States...

E. C. M. asks: Would a boiler be subject to damage by having a slight blast underneath...

P. H. S. asks: Can a calcium light be made so as to be carried in the hand on a foggy day...

Can colored candles be made to burn with a flame of the same color...

How can a pattern of a pot be drawn, the bottom to be 7 inches in diameter...

How can I deposit a thin coat of platinum on metal by a plating process...

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positive pole of the battery is placed so as to dip into the solution...

W. H. C. Sr. says: There is a man in our neighborhood who says that, if a boiler with both heads out were set up on end...

D. K. S. says, in answer to J. K. K.'s question in regard to the British man of war sunk at Hell Gate about 1747...

J. O'D. asks: I have often felt the want of ventilation in railway cars...

J. H. McD. asks: The follower on a steam engine of 32 inches diameter...

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You again write to us without giving your name and address.

M. P. S. says: Your repeated cautions in regard to lightning rods lead me to ask your advice through your columns...

J. E. J. asks: Will acid dissolve resin without destroying its natural qualities?

S. C. J. asks: In your book of instructions for obtaining patents...

C. D. F. asks: 1. Why is it that, when I adjust a telegraph sounder so that...

S. F. says: I wish to suggest a form of balloon which may be worth experimenting on...



