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- G. O. K., of Vt.—The best way for you to procure a econd-hand steam-engine will be to advertise for it in the Sours-tors: Augustan. You will find our terms on another page.
- W. P., of Ohio. In the answer to you on page 126 of our present volume, the word "feet" should have read "inches." A tube 1,723 inches bigh and of one square inch area contains a cubic foot of water which weighs 62% pounds water, and exerts this amount of pressure on its base. A similar tube of 1,692 inches (14 feet) high contains about 61 pounds of water; a round tube one inch in diameter, and 178 feethigh, contains nearly the same quantity of water, and exerts a like intensa pressure on its base. As has been water, and earls a had means pressure on the case to an an earlier inferred with good judgment, "it is not easy to avoid errors some times taking place, in answering so many correspondents, and using so many mixed terms and quantities."
- W. M. F., of Pa.-Wagon brakes have been patented to accomplish what you desire. If you have anything new in this department of invention you are entitled to a patent for it. Send us a description of it for examination.
- C. R., of Tenn.-If some nitrate of silver is added to printers' ink, it will make indelible stencil ink.
- J. L. M., of Ind.—On page 52 of the present volume of the Scientific American, you will find instructions for plating on iron. We know of no such book as you describe suitable to every mechanical pursult.
- E. H. B., of Mass.-You can make black impression paper with glycerine and lampblack, also with fresh butter and lampblack; dry as well as possible after application.
- T. McC., of N. Y .- You can easily calculate the power of a hydraulic press by multiplying the pressure on the square inch into the water area of the ram in square inches, and by the speed, in feet, per minute of the piston. As your ram has an area of 14.75 fit moves at the rate of two feet per minute its power will be one-sixth of a horse—5126.101bs. lifted one foot in one minute. Consult a work on horolo y about pendulums.
- E. B., of S. C.-Your idea of placing a perforated diaphragmat the bottom of the steam-chamber to prevent water being carried up into it is an old one, and so is the surface well for colcarried up into it is an old one, and so is the surface well for cullecting and conveying away the foam. We do not very well understand your bulk-head, owing to the imperfection of your drawing, but have seen something very much like it. We have sent to your address one of our pamphlets of information.

  R. D., of C. W.—We thank you for proposing to get us
- up a club of subscribers. We are now electrotyping our numbers each week, and can therefore supply back numbers at all times. Plaster-of-Paris can hold boiling water without being much affected by it. A coment of plaster-of-Paris and fine white sand, in equal parts, mixed up with white lead paint, will answer well, we believe, for stopping the leaks in your tank.
- D. P. of Pa.-We do not know of any substance suitable for cleaning fly specks from the feathers of stuffed had better consult some taxidermist in Philadelphia. stuffed birds. You
- H. M. S., of Mich. The coal of a wood fire burned in the open air is different from charcoal burned in a pit. The former contains hydrogen, the latter none. Hydraulic cement sets in a very few minutes after it is laid. Platinum is the most expansive metal by heat, and wrought expands more than cast fron. Allow dull files to lay in diluted sulphuric acid until they are bit deep enough. We cannot specify the time that is required.

- J. R. B., of Ind.—We cannot think that a few shot would prevent molasses running out of a barrel without the barrel itselfwas very tight. Lyell's "Manuel and Elements of Geology," ublished by D. Appleton & Co., of this city, will suit you best
- C. L. H., of Vt.—If you take the trouble to figure out the cost of cigar-making, as stated in our article, you will see that our figuring is not so tall as you supp se.
- J. M. C., of Iowa.—Boiled linseed oil will keep polished tools from rusting if it is allowed to dry on them. Common sperm oil will prevent them from rusting for a short period. A coat of c pal varnish is frequently applied to polished tools exposed to the
- H. W. W., of Ill.—A more regular motion is produced by cutting off the steam before the end of the stroke than in carrying full pressure the whole length.
- W. S. G., of Ill.—We are not acquainted with the composition of the cement to which you refer. A mixture of india-rubber and shell-lac varnishmakes a very adhesive leather cement. A strong solution of common isinglass, with a little diluted alcohol added to it, makes an excellent cement for leather.
- M. B., of Mass.-You will find information on the art of lithography by reference to Ure's dictionary. There is no distinct work on this subject.
- B. C., of Pa.—Superheated steam is gradually coming this country. It has been found most advantageous not to use it too highly heated, as it uses up too much lubricating material when ery highly dried.
- M. H., of Pa.—We refer you to articles on pages 169 and 204 of Vol. XIV. of the Scientific American: they contain full information on the subject of halancing saws.
- J. O. M., of N. Y. -So far as we know, your improve ment in casting cannon of the two metals specified in your letter is new and useful; and it appears to us that, by casting the most fractious on the top of the least fractious metal, as prop omplish the desired result.
- W. J. P., of Vt.-The hone side of a razor strap is made with fine entery laid on with glue; the polishing side is made of calcined the or colcother, but if you cannot get these use black-lead a little greaso. 'The finishing side is simply buff leather.
- C. M. E., of Pa.—There is no patent in existence which covers the use of compressed air as a motor. Any person may use compressed air in the United States for moving cars, as It is public property.
- C. A. F., of Mo.-The coating for iron to which you refer is sillicate of sods, and will not answer for iron boilers to prevent corrosion, Maspratt's Chemistry is sold by Russell & Bros. 293 Brosdway, New York. Your subscription expires Jan. 1.
- E. B., of S. C.-You omitted to sign your name to your letter of inquiry about the double boat, but there being evidence of good faith on your part we reply that it is an old idea, and we can good nation of you to apply for a patent on it. Your money would be thrown away upon the government and the agent.
- Turner, Mainc-A correspondent from this place seeks information from us, and is disappointed, doubiless, in not receiving an answer. The reason is he forgot to sign his name to his letter.
- J. H. R., of Mass .- By all means have your well covered, as it will then be protected from dust and dire
- W. B. G., of N. Y.—Under some conditions, we have ut that electro-magnetic engines would be most suitable capecially for driving light machinery, such as sewing machines
- J. H. L., of Ind.—The spirit obtained from grain is from that part which may be converted into starch, and for this reason starch manufactu ers are exceedingly careful to prevent vinous fermentation in their vats. A considerable amount of spirit vialous fermemention in their vate. A connecratic amount of spirit may be obtained from starch, but at present we cannot give you the exact quantity. The Postmaster ordered your paper to be stopped nauncalled for
- P. F. K., of Ga.-We do not know where you can get your old tea-trays japapned, but we will tell you how to do it your self. First clean them thoroughly with soap and water and a little rotten stone; then dry them by wiping and exposure at the fire. Now, get some good copal varnish, mix with it some bronze powder, and apply with a brush to the denuded parts. After which set the tea-tray in a oven at a heat of 2129 or 2009 until the varnish is dry Two coats will make it equal to new.

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