Scientific American.

TO CORRESPONDENTS

L. M. C., of C. W .- A steam pump of the description you speak of, and with its qualities, is desirable but the only true test of its effective economy is experiment. It is not possible to tell how it will work without a trial, for that would be predicating a result upon an unknown theory.

J. A. D., of Fla.-We cannot consent to do any such thing, we have learned the folly of believing that such advice is rendered from disinterested mo tives

A. B. K., of Canada-We can find only one patent issued to A. N. Henderson; but it is for a different purpose. There are numerous patents in this country for setting logs, called "self-setting," and we presume some are in use. We have heard of no demand for such inventions of late. The extra charge on the "Sci. Am." is for Canada postage.

S. H., of Mass.-As soon as a final determination is made in your case we shall advise you. No alterations can now be made in the model under the same fee. If you wish to alter it, the present case must be withdrawn and a new application filed in.

M. R., of Me .- You have entirely overlooked one fact, that is, "velocity;" surface pressure is not the only calculation to be made; the velocity and pressure must enter into computation. The same prin ciple as yours was embraced in the Air Engine of Savery. The low pressure condensing engine meets more than the conditions set forth in your sketch. We shall let you have something on steam power in a future number.

C. B., of Ohio-The method you suggest for ventilating railroad cars has been before proposed ; we doubt its patentability, as substantially the same plan has been secured to a Mr. Heckrote, of Mary land.

P.S., of N.B.-There are no patents in the name Hargus or Kendal, for candle making. We presume they have no patents for their processes.

M. W. S. of Mass.-The keeping of the stone wet is not the difficulty at all, nor was that mentioned to be the difficulty, for it would not answer to keep the stone always wet; the ink, in that case, as you see, could not be applied.

W. R., of R. I .- The engravings of your patent door will be inserted in our next number.

J. T. P., of Mass .- Your papers have been forwarded to the Patent Office, and you may look for the issue in about two months.

H. W. C., of Mass.-Your diagrams are in the hands of the engraver, and will be done this week.

S. L., of Maine.-To build a vault cheap and fireproof, make the walls of rough stone, plastered with fire-proof cement, and make the roof of iron, with Hyatt's lights. It can be built cheaper, but not truly fire-proof. Wood can be rendered partially fireproof by steeping it in alum.

W P., of Mich.-The centrifugal force of the earth does not affect the waters of any river, any more than the motion of the earth on its axis affects the motion of our bodies. We do not see any good or useful result to be obtained from the discussion of the Mississippi question; its waters run down an inclined plane, in the common-sense view of the ques tion

M. K., of Mass.-Your ideas about ventilating cars is not new; the same proposition is advanced in the notice of Law's invention found on page 340, this volume Sci. Am.; it has often been submitted as the best plan for the purpose. The numbers we have sent, with the exception of an index of Vol 2, none was ever published.

C. W. G. of Mass - We have now a drawing in our possession embracing the same device for ventila ting cars, as is proposed by you. It could not be pa tented.

Mechanics' Institute, Ohio-A railroad car brake, under the entire control of the engineer, and operated upon by steam, was projected some years ago by Robert Stephenson, of England. Several different plans have been proposed since his invention, but none of them have put into use. There are some practical difficulties in its way at present, it would seem

J. H., of Ohio-The subject of car ventilation is now attracting much attention, and it is likely some good may result from it. For the benefit of yourself and many others, we deem it proper to state that trunks with bell-mouths, for taking in air, and wind tubes passing over or under trains, to receive air, either by a funnel-shaped mouth or by the application of a blower, are old and well known. We see nothing new in yours, in fact it will not work well. because dust and smoke will get in. Hamilton's and Paine's arrangements of windows embrace the principle designated by you.

V P K of N V

G. H., of Albany-In 1782, the Marquis De Joffrie, 1 constructed a steamboat at Lyons, France, and employed paddles on an endless chain. It was not successful. In 1826, this invention was revived by a Mr. Palmer, of the Royal Mint. The invention is old and well known, and has been condemned for some cause. We cannot enumerate the number of times this invention has been submitted to us. A proposition to use it on our canals was made three years ago but without success.

• E. C. H., of Ohio-We have examined your impreved File for Documents, and think it new. We have never seen anything of the kind before, and regard it as useful. Whether the Office would issue a patentforit is more than we can say; we think a patent should be granted.

H. & R, of N. H.-If you wish an engraving published, please send by express the Letters Patent, and when we get through with them, they will be returned.

E. G. F., of Halifax-We regret that we are una ble to furnish the information pesired by Mr. Potts and know of no person to whom we can refer him.

W. C., of Me .- A patent was issued on the 19th of August last for a Register for omnibus drivers; you will find the claim on page 398 Vol. 6, Sci. Am.

D. B., of N. J .- So far as the passing of the heated products into the boiler is concerned, we have to say, that the plan has been proposed to us before, but there are practical difficulties in the way of its application. The heated products is carbonic acid gas, and the pressure of this gas must always exceed the pressnre in the boiler. We also do not see how you will be able to make the fire draw when the water becomes as hot as the product which heats it.

Money received on account of Patent Office business for the week ending Saturday, July 31:

ness for the week ending Saturday, July 31: L. P. & W. F. D., of N. Y., \$10; A. H., of S. C., \$25; C. B., of N. Y., \$30; C. P., of N. Y., \$20; E. S., Jr., of Ct., \$20; M. J., of N. Y., \$00: H. W. O., of N. Y., \$00; J. T. & Sons, of N. Y., \$00: H. W., of Vt. \$10; B & B., of Ct., \$22; J. F. W., of Ct., \$50; I. T. P., of Mass., \$25; J. D., of N. Y., \$20; I. F. B., of Ga., \$65; C. & B., of N. Y., \$20;

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, July 31 :

E. S., Jr., of Ct.; C.P., of N. Y.; M. R., of Me.; J. D., of N. Y.; J. W., of Pa.; B. & B., of Ct.

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THORTANT 'TO SOAP MAKERS—Letters: Patent of the United States having been issued to Wm. McCord on the 27th of July, for a valuable improvement in soap, all manufacturers, venders. and users are hereby cautioned against the use of Kaolin, or other equivalent aluminous minerals, combined with ammonia, as they will, by so doing, infringe this patent, and subject themselves to pro-secution. Rights to manufacture this the most va-luable soap, are offered for sale on reasonable terms. Annly to WM. McCORD. 141 Sullivan at. N.Y. 47th secution. Rights to manufacture this the most va-luable soap, are offered for sale on reasonable terms. Apply to WM, McCORD, 141 Sullivan st., N.Y. 47tf

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A SITUATION IS WANTED-By a man, as engineer, who is well acquainted with construc-ting Steam Engines of the various patterns, and most approved styles in use at the present day; inferior to none in point of duty. Any establishment in want of such a man may address "Engineer," Has-tings, Westchester Co., N. Y. No objection; to any part of the country. 46 2* part of the country

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MACHINERY.-S. C. HILLS, No. 12 Platt-st. N. Y. dealer in Steam Engines, Boilers, Iron Pla-ners, Lathes, Universal Chucks, Drills; Kase's, Von Schmidt's and other Pumps; Johnson's Shingle Ma-chines; Woodworth's, Daniel's and Law's Planing machines; Dick's Presses, Punches and Shears; Mor-ticing and Tennoning machines; Belting; machinery oil, Beal's patent Cob and Corn mills; Burr mill and Grindstones; Lead and Iron Pipe &c. Letters to be noticed must be post-paid. 26 tf noticed must be post-paid. 26 tf

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TO INVENTORS—The subscribers will enter into arrangements, on the most reasonable terms, for furnishing Drawings, Patterns, and Models, believ-ing that they have one of the most thorough and sciing that they have one of the most thorough and sci-entific men, in that line of business, to be found in New York. Their object is merely to fill up time, they not having sufficient work of their own to keep him in steady employment, and do not like to have him leave for fear they could not obtain his servi-ces when required. Apply at Dunloy's Manufactu-turing Empoirum, No. 36 Gold street. 41 13* FRASER & EVERITT.

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A. B. ELY, Counsellor at Law, 46 Washington Patent Cases. Refers to Munn & Co., Scientific American. 13tf

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over the plan represented by Mr. Paine? The ide appears to be similar. He says his plan works we practically. J. W. Stuart, of Plattville, Wis., wishes information	ranged by letter. Models can be sent with safety by express or any other convenient medium. They should not be over 1 foot square in size, if possible. Having Agents located in the chief cities of Eu- rope, our facilities for obtaining Foreign Patents are unequalled. This branch of our businessreceives the especial attention of one of the members of the firm, who is prepared to advise with inventors and manu-	57 Ann street, New York. State and County Rights for sale. 40 13 FOR SALE-A complete set of tools for the ma- nufacture of Spring Head Callipers and Dividers, four sizes each. To any person wishing to engage in the manufacture of such articles, an opportunity	L York, agents for George Vail & Co., Speedwell Iron Works, have constantly on hand Saw Mill and Grist Mill Irons, Press Screws, Bogardus' Horse- Powers, and will take orders of Machinery of any kind, of iron and brass; Portable Saw-mills and SteamEngines, Saw Gummers of approved and cheap kind, &c. Gearing, Shafting, large and small, cast or of wrought iron. 11 ly
a patent for your own invention, because none bu	128 Fulton street, New York. TO BRIDGE BUILDERS-WANTED, an ex- perienced Bridge Builder, to take the build- ing of the Plank Road Bridge over the Sallapoosa e River, near Montgomery, Alabama. Address "W," Lox 564, New York Post Office, with references. 47 2* CHILDS & TAINTER, Worcester, Mass, Build- Cers of Daniel's Planers, with Read's feed mo-	And Engineers.—Ine subscriber having taken the agency of Aschroft's Pressure Gauges, would recommend their adoption to those interested. They have but lately been introduced into this country, but have been applied to many of our first-class river and ocean steamers, and on several rail roads, on all of which from their simplicity, accu- racy, and non-liability to derangement, they have given the utmost satisfaction. CHAS.W. COPE- LAND, Consulting Engineer, 64 Broadwar, N. Y.	▲ V pany, Tool Builders, New Haven, Conn., (suc- cessors to Scranton & Parshley) have now on hand \$25,000 worth of Machinist's Tools consisting of