## Scientific American.

## TO CORRESPONDENTS.

R. M. L., of Me.-Chloroform was discovered by Dr. Simpson, of Edinburgh, but its application for surgical purposes is claimed by two individuals -Dr
Jackson and Dr. Morton, both Americans ; Dr. Jack son was awarded a gold medal by the Paris Academy of Sciences, and received the honor of being enti teed the first
Dr. Morton.
Dr. Morton.
I. E. C., of Md.-We should think your improve mont novel and worthy of a patent, although it difficult to decide without a sketch and description J. S. is not the person you mention. You had bette send us a model.
C. W. M., of Vt. -The use of glass tubes to india cate the height of steam and water in boilers, i well known, and could not be patented. J. N., of Wis. -You are correct about the force o
the water that would pass through the tube ; but as the water that would pass through the tube; but as
action and re-action are equal, you would get the action and reaction are equal, you would get the
full benefit of it by allowing it to act upon the wafull benefit of it by allowing it to act upon the wa
ter at the stern of the vessel, upon the principle o ter at the stern of the vessel, upon the principle of
a reaction wheel. This would save all your mach a reaction wheel. This would save all your machi-
nervy, which will no doubt operate, but no benefit can be derived even from this, as the water running through the tube will resist the progress of the veg sell just in pr
red from it.
L. D., of Conn. -You wish for information that would require a whole copy of our paper to give.
Quartz is the basis of all glass, and you would have Quartz is the basis of all glass, and you would have master your business. Quartz can easily be mete with the blow-pipe
J. D., of Ohio-The only way, to our knowledge, of
bringing back brittle gold, is to hest it and cool it in the atmosphere.
S. W. H., of R. I. -The matches which we have seen, made without sulphur, were of candle-bo wood, dipped in phosphorus and the chlorate of potash. J . N., Jr., of Md. -The mechanical construction of your pump is different from any we have seen, but
the principle is essentially like Read's and othersthe principle
well known.
M. M. M., of Vt. -We suppose a tubular boiler would be best for your use. Messes. Stilman, Allen \& Cor., The orly you. The cylinder of the engine might be 30 -inch
stroke and 12 inch bore. Builders can tell you bet ter than we can.
T. W., of Ala.- Your quantity of water per mi note is very small; it is scarcely one horse actual power; 210 gals. per minute, and 24 feet fall, is of
the following horse-power, 210 multiplied by 10 , mulethe following horse-power, 210 multiplied by 10 , mut-
tiplied by 24 , divided by 33,000 is equal to $i: 52$, a littiplied by 24 , divided by 33,000 is equal to $1: 52$, a lit the over one-half nominal horse-power. A gallon of
water is $10 \mathrm{lbs} ; 33,000 \mathrm{lbs}$. lifted one foot high, per water is 10 lbs ; 33,000 lbs. lifted one foot high, pe ducted from the nominal horse-power for friction $8 c c$. If the 210 gallons fell
have sixty times the power
M. L., of Boston -We could not find out your in ventions at the Fair. If Mr. W. had called or shown us the model, it would be more proper than for us to go in search of it; although we often on an calls to
it is not right to ask us; we have too many attend to them all without serious loss of time; we
are, however, always willing to notice all new and

## are, however, alma

E. B., of N. Y. -The prizes mentioned by you were offered by F. M. Ray, of this city. You are to late, as the
amination,
amination,
O. L., of Pa.-The idea you suggest in regard to cigars is new to us, but we doubt whether a paten could be secured for it. The principle is similar to
the celebrated Meerschaum pipes, which are said to relieve tobacco of everything unpleasant, they ar made of a kind of clay which consists of a hydrate of magnesia combined with silex.
W. F., of Tenn. - If you will again consider the subject of paddle wheels, you will see that your plea J. C., of Geo.-We shall write you by mail in r gard to the machine for cross grooving
Dr. B. H. W., of Ky , - It will be impossible for us to advise you respecting the stave dressing machine simply upon a written statement. This class of ia ventions has received much attention, and it is diff cult to produce any decidednovelty. From what w could judge by examination of $t$ e rough model you sent us some time since, we thought the contrivance
new but by far too complex. The reduction of its new but by far too complex. The reduction of its
parts may strip it of its novelty. We can scarcely parts may strip it of its novelty. We can scarcely
judge without a clearly described drawing or model. J. Y., of Ohio. -The model of your improvement cameduhy to hand, and the business will receive
early attention. The specification will soon be sen to you tor signature and oath.
B. B., of Md.-The noticing of a claim does not secure the invention; those which we notice have al
paid their fees for the patents. We have never see a machine exactly like pars, but we have seen a a machine exactly like yours, but we have seen
concave and convex with spikes working into on another for grinding corn. You will see an engra-
ring of this mill on page 49, Vol. 4, Scientific Ameriring of this mill on page 49, Vol. 4, Scientific Amer G. W. S., of Boston .-A tunnel to relieve Broad way was proposed some years ago. Mr. Osborn, of Albany, N. Y., has brought the plan before the pub ic again, at the present Fair of the American Insti tutus. It will not do until our sewers are differently our streets are not much higher than high water.
J. E. C., of Md--Your wagon arrangement is new to us, and we believe it is patentable; but it will
make the wagon more expensive, and carmen have evinced some partiality for the one which swings
H. an axis. of
H. B., of Wis. -We are much obliged to you for sect to the centrifu have misinterpreted us in re increasing with the velocity., We only have asserted
that there is no such a thing as an independent force that there is no such a thing as an independent force called centrifugal. Be cautious about publishing
your ideas on force. You know the moon describes our ideas on force. You know the moos
helical patch in its annual processions.
C. H. S.. of La.-The Plow, Loom, and Anvil it published at No. 9 Spruce street, this city, and the Franklin Institute, in Philadelphia.
S. R., of Md. -We will attend to your business in mediately. We do notexactly understand from you him or not.
W. B., of Ala. - We do not like the idea of paying formation in no letter for the privilege of giving in several times been so treated, we hope unintention ally.
A. B
A. B, of Vt -Your article partakes of a party columns.
B. W. he desired information.
R. S. K., of N. Y. -We hope you will not put your machine in operation until you have faithfully counted the cost. We have given you the best ad vise we could.
W. R., of Conn. - You ask, "what is a horse powci. Am., would have been under the necessity asking it. It is 33,000 lbs. lifted one foot high it
ne minute. ne minute.
Money received on account of Patent Dice bus ness for the week ending Saturday. Oct. 23 :-
A. A. D., of Ga, $\$ 40$; T. S. of IM. $\$ \$ 00:$ R.

Specifications and drawings belonging to parties with the following initials have been forwarded to
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H. F. $\mathbf{P}$


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