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## TO CORRESPONDENTS

## T F CORREAONDENT

pan, it may be sald; the only air that is in one that of the water; your plan would save nothing. B. M., ofR. I.-A long time prior to the establish ment of gavanism as a science, it had been observed that if two different metals were placed in contact though the water had no perceptible action upo them when they were alone. It had also been ob them when they were alone. It had also been ob
served that ancient inscriptions, made of some me tals, were totally defaced, while those made of pur tifuls science, and it isyetin its infancy.
S. W., of Texas.-It would be impossible for us accomplish all you desire for the want of time and facilities to attend to it; parties from this section out positive assurarce of success.
out positive assurance of success.
J. L. O., of Lynn.-We think your plan of spring bedstead new and patentable, and request you to send upon contingencies not properly within our province to decide upon
T. C., of Va.-We have not time to write you a
full receipt about the Chromatype. The supply pipe for your water ram is not material, but as your discharge pipe is five inch dia. (a very large size, truly) it will require a fall of 12 feet to raise all the water 12 feet, or a 6 feet fall to raise half the water, or
feet to raise one-third the supply of water; this is not counting a little ore judge what size of supply pipe you require.
Vol. 4 that you ordered
S. H., of Ind.-The idea of applying steam directly to the periphery of a wheel to act by its expansive force to propel it, is well known to
the history of the rotary engine.
W. B. H. of Ohio.-You say you are poor; we are
honest. We could not obtain a patent for your in-
vention, much as you think of it, and we therefore vention, much as you think of it, and we therefore
would not wish you to lose your money. We would would not wish you to lose your money. We wound
say the same to a rich man. No power can be gained from a lever, as you know. The old revolving buckbecause the weight of the water is applied nearly vertically, but there are mechanical difficulties the way of your plan, as in the old bucket plan.
W. J., of Pa.-The best material you can use
the floats, is india rubber ; it is the dearest, butthere
is nothing like it for air-tightness. The Goodyear is nothing like it for air-tightness. The Goodyear
India Rubber Warehouse, this city, will furnish you with what you want, but perhaps you can find one o them in
F. H. M., of N. Y. When the application for the patent is filed, itis policy, usually, to substitute new
claims, although you can retain such as were made in the caveat, if you prefer
G. K, of O.-Minifie's Drawing Book is probably the best work you could procure as a text book :-
price $\$ 3$; postage by mail, 64 c., which must be prepaid.
C. F., of N. Y.-The copy of the Sci Am., that we sent you, will be convinci
your invention is very old
W. S., of S. C.-Dr. Reid resides in Rochester, N.
Y., and could doubtless aff ord you such information bout the sumac as you desire, and we think you would do well to communicate with him upon the
subject. It would cetainly afford us much pleasure to do so were it possible.
G. B., of Ark. -We should be pleased to see your rawngs, but protiabty nat sublish them du
ring this Volume. The series of papers on Hydrau ring this Volume. The series of papers on Hydrau-
lics, which were published in last Volume, will satisfy for the present.
G. M. C., of Me.
leases after getting a patent; he may sell just as h as he likes, No one has a right to make orssell hi machine. If he took more than two years to perfect his machine, B has no right to use it in any shape. If efore applying for a patent, he will, in all likelihood, lose all the advantages of it. It is his duty to apply
for a patent or fle a caveat before the two years expire.
K. E., of N. Y.-Your plan for whitening sugar by and practicable plan, but it will not refine sugar so fast as the new Centrifugal Machines, which can be made to work with greater rapidity

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