## (0) (0)

c. $a, w$ of
C. G. W., of La.-You cannot procure a patent fo
making signs of glass. They are used quite extensive 15 in this city.
T. F., of Ohio--It is supposed that the vegetable
cell is imimilar in its action to the galvanic cell, but it is a mere supposition. The brown n receipitatef formed by immersing a a zinc plate in a solution of blue vitriol, is a
subb-sulphate of copper.
J. s. M... of N. Y . The composition you mention for brass fixtures is lacquer. It is made with shellac disB. B, of Ohio.-It is our opinion that the white lead and not the turpentine is the cause of painter's colic in painting with lead pigments. A portion of the lead may
evaporate with the turpentine, and be inhaled by the evaporate with the turpentine, and beinhaled by the
painter ; this action has been suggested. about as much water under sixty pounds pressure as under atmospheric pressure. If your boiler evaporates nine cubic feet of water per hour, it is nine horse power.
J. H., of Ala. - You cannot freeze water by forcing condensed air intiont. Dr. Corrie applied refrigerating
liquids for absorbing the heat from water to produce ice in his machine, As far as we have been able to obtain chinery has hitherto been constructed. You may ye become the successful inventor.
J. R. M. of -. You have iven us no data for calcu-
Iating the quantity of water which falls lating the quantity of water which falls per minute
therefore we cannot tell you the horse power of your therefore we cannot tell you the horse nower of your
water fall. State your question correctly, and we will waterfant
answer it.
L. A. ofN. Y.-We have had a host of communica-
tions on the gyroscope. none containing anything of practical usefulnerss. We are acquainted with all the experiments related in your ietter.
B. M., of N. Y.- Practically we know that water
ond night than day, but whe hot yet satisfied ourselve as to the reason why. Water will fiow as fast over a nine foot as over a twelve foot fall.
H. G. W., of N. Y.-We understand that pipes are used upon several lake boats for carrying steam from
boilers into the holds of the vessels for extinuifing boilers into the holds of the vessels for extinguishing
fires. This method has been recommended as asafety fires. This method has been recommended as a safet,
adjunct by the supervising inspectors of steamboats The idea of employing steam for extinguishing fires is old and well known.
S. A. of Iowa.-Mere static pressure cannot raise
water in tubes, water in tubes, as you suppose. As there are 6.26 ibs.
of water in an inch tube 20 feet high, the total presure of water in an inch tube 20 feet high, the total pressure
of 3 lbss. on a p piston in a four foot stroke pump mak ing 40 strokes per minute, will raise water 20 feet high through the tube, and discharge its whole contents eight times every minute.
E. A. D., of N. Y.-You cannot successfully heat wa-
ter in a vat by placing the steam pipe upon its surface. ter in a vat by placing the steam pipe upon its surface.
Water will not conduct heat downwards; so that if you wish to accomplish your object, you should place the
heating pipes at the bottom of the vat. A Ateam jacket when applied to an engine, is a casing filled with steam for keeping the steam in the interior of the cylinder
hot. It is known to be an economizer of fuel. Watt discarded it for a while, but resumed its use again fo the above reason
J. w . s . of of
that telegraph companies could not use several wiries that telegraph companies could not use several wires
twisted together for conductors, on account of their too great conducting powers. They have found that when one wire can do the work it is absurd to use more, just as it would be an erroneous policy to build and use
three or four tracks of railroad to do work that can easily be accomplished on a single track. A lightning opinion of Professor Faraday.
S. \& M., of Ky.-If you own a town, county, or State right in a patented invention, and any one should introduce the same improvement within your territorial limits, he is iliable to you for damages, and you can sue the purchaser of a patent right to a specific locality could be interfered with by the mere introduction of remedy.
G. H., of Del.-Constructing diaphragm -pumps in the manner you deseribe has been done before, and is not, therefore, patentable.
s. . U s, of
holding it vertically to the ege much of its length is necessary to cover the figure of a man at any known distances, say one hundred and two hundred yards, and then cutting notches in the pencil at the exact points, ₹ou will be able at any time, by this aimple means, to aphoximate closely to the distance a person may be from you. A knowledge of this simple
fact may prove of service in many cases. We know nothing of a bass viol operated by horse-power. It must be a curious affair.
J. C. C., of Tenn,-We have never published an en-
graving of Halsteds turn-table. Wm. Howe has lma three patents granted to him on bridgeg. Two were is sued in 1840, and have expired, and one was granted in
184 ${ }^{1846, ~ c . ~ o f ~} \mathrm{~Pa}$. the inventor attached, are liable to be mislaid and forgotten. The law requires the applicant's name to be put on his model.
W. W. of N. J.-To preserve your boiler from rusting
while it stands
idde, introduce While it stands idle, introduce some oill into it just be-
fore it is stopped, and then run off all the water. fore it is stopped, and then run of all the water. A
thin coat of oil will thus be left upon the metal to protect it.
F. G. . of Mass.-Build your small boiler of a cylF. G. ., of Mass, - Baild your small boiler of a cyl-
pipe into its top when you have no dome. The power
of an engine does not depend on the length of itsstroke but the pressure of steam, and the velocity and area of the piston. Cement for cast iron is composed of twent pounds of iron filings, one ounce of sal ammoniac, and half an ounce of the fiower of sulphur, made into a paste with water.
Money received at the Scientific American Office on ccount of Patent Office
Saturday, June 12, 1858 :-
L. H.. of La., $\$ 24$; J. R., of Ohio, $\$ 25$ : U. T. S., or Tenn. $\$ 30$; T. G. Y., of N. Y., $\$ 25$; G. W. S., of HL
$\$ 30 ;$ J. H. Q., of Mich., $\$ 24 ;$ A.
. Ala., $\$ 30$; G. W. B, of N. Y., $\$ 25$; E. B., of Mo., $\$ 30$
I M. M., of III, , $\$ 30$; W. H, B., of N. Y., $\$ 55$ : A. D., of
Mich., $\$ 25$ J. A. A., of Texas, $\$ 30$; B. \& P., of Mass., $\$ 55$; S. S., of L. I., $\$ 57$; S. N. L., of N. Y., $\$ 30$; J. F.,
of Mass., $\$ 81$; C. W. \& W. W. M., of Ill., $\$ 15$; H. N., of N. Y., $\$ 45$; S. B. S., of Mo., $\$ 30$; P. M., of Ill., $\$ 30$
J. J. W., of L. I., $\$ 30 ;$ M. D., of Conn., $\$ 250$; O. D W., of N. Y., $\$ 25$; G. F. D., of Pa., $\$ 30$; W. S., of Mo.
$\$ 10$; J. D., of Ohio, $\$ 20$; W. W. H., of Texas $\$ 30$ $\$ 10 ;$ J. D., of Ohio, $\$ 20$; W. W. H., of Texas, $\$ 30$.
Specifications and dra wings belonging to parties with ont Office during the Pat 12, 1858:J. 1858:-
 T. G. Y., ofN. Y.; J. L. S., of Tenn. ; A. D., of Mich. T. E. McN., of Pa.; O. D. W., of N. Y.; W. H. B., of
N. Y.; G. W. B.. of N. Y.; D. H., ofN. Y. ; J. D., o
Ohi; of Mass, ( 3 cases); T. $\mathbf{T}$. P., of N. Y.

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