## Sicurtific Americar.

## (2cherespondents

S. J. S., of Miss.-Thy best briss solder is composed of
six parts of brass, one of tin, and one of zinc ; the lrass is first melted, thea the tin, then the ziuc, the whole b ing well stirred with a stick, to incorporate them
thoroughly. Gold solders depend on the carat of the horoughy. Gold solder. 3 depend on the carat of the
metal to be joined; one for $\$ 15$ gold is this: 1 dwt . $\$ 15$ gold, 10 grains of silver, 8 grs of copper, and 4 gre 2parts of fins silver and 1 part of brass wirc will answe every purpose, and will be improved by the addition of
three-fourths of a part of arsenic. These will all fuse before the mouth of a blow-pipe.
Pebbitt Babbitt's metal is 24 parts of copper, 24 parts of tin, an
8 of antimony, by weisht. The application of thesprin 8 of antimony, by weight. The application of thespring
balance to the cable, to indicate the strain, is not pat entable. The spring bulance being a well known device for indicating strain, tension, or reressure, its applicas-
tion to any particular or specific purpose is not an invention.
E. H. L., of Ga.-The shaking of yourhouse when train of cars passes, is only due to the concussion of
so great a weight passing by. Electricity has nothin so great a weight passing by. Electricity has nothing
to do with it.
W. R. T., of Pa.-The brat solvent for india rubber is coal tar naphtha; nothing will restore it to its original clasticity. Slow evaporation at
not much influence its qualities.
not much in of Mc.-The best method of bleaching your J. H. P., of me.-The best method of bleaching your little lime, and let them dry in the sun.
W. R. B., of Mo.-Your explaantion of the gyroscope
paradox is old. We only published the explanation of Mr. MeCarroll because of its novelty, and not because we had any great faith in it ourselves.
J. N., of Texas, G. B., of N. Y., S. S., of Pa., and D.
II. P., of Texas,-Your suggestions concerning the Atlantic cable are impracticable; and were they of real value, there would be no occasion for their use, as
it has been decided that with an alteration of the pay ing-out machinery it will sink very well, unaffected by ever, although your ideas are this time of little practical worth, yet they demonstrate great ingenuity on the shall be happyy to hear from you again
H. H., of pa the cannabzs indicus can be procured Write to the phy-
sician "whose sands of life have nearly run out." Ire will probably survive until you can get his reply. J. D., of Conn.-Your inquire why we are unvilling
to advertise your patent medicine. We reply that we cannot almit this class of advertiscments into our col-
umns, for, as a gencral thing, we regard advertised umns, for, as a gencral thing, we regard advertised
medicines as humbugs. The public are drugen too muchalready, and we cannot consent to help on the J. N. R., of N. Y.-You will find an engraving and
description of Pages electro-magnetic engive in No. Vol. 7, Scientific American.
J. M. C., of N. Y.-Use thick hair felt, over which place a covering of canvas. By this means you cun
carry steam through metallic pipes to a great disturce. carry steam through metallic pipes to a great disturce.
T. McK., of Mass.-Wc have heard that copies of daguerreotypes have been takep from the plate by the
galvanic batteryfor printing, but have never seen a copy galvanic batteryfor printing, but have never seen a copy
of the picture, with all its lights and slades, taken ly a battery, as you have done. Will you send us $\Omega$ description of the proces
J. F. W... of t.-Good sand for molling contains of iron in every 100 parts by measure. In practice, however, diifercat castings require different kinds of sand-some coarse, and some finc. A sign of good mold-
ing sand is, t ,at when squeezed in the ing sand is, tiat when squeezed in the hand, it assumes
the finest impressions of the hand without adhering to it. Very fine emery is cmployed for fine polishing
wheels. The surface of the whecls are coated with glue or copal varnish, and the emery then dusted on and allowed to dry.
M. J. H., of
M. J. H., of N. Y.-The ilea of driving ship's pumps by means of a screw like a propeller, having a rotary
motion imparted to it by the vessel's motion throush motion imparted to it by the vessel's motion throus
the water, is an old one. We cannot recollect who was the first inventor. We know of no life prcserver con-
structed as you propose, of one or more hollow canister filled with a number of smaller c.anisters ; but it ha been proposed to make holloir metal lite rafts in com
partments, which is almost, if not quite equivalent partments, which is aimost, if not quite equivalent, show an advantage in the use of separate canisters inside the larger one, a patent might be obtained.
J. A. B., of Flu.-We wrote to you on the 11th of September in reference to your lock improvement. W. \& S., of Pa.-Y Yu say you employ a wind mill for grinding corn, which has arms, with sails of thin board
hinged and adjusted to the action of the wind by weights Your are surprised that there is no perceptible increase in speed when the mill has run out of corn, and ask an explanation. You seem to overlook the fact that the weights referred to act the part of a governor, and thus nation which can be given of it.

Money received at the Scientific American Office on account of Patent Office
Saturday, October 10,
C. R.' B., of N. Y., $\$ 32$; W. W. D. of Cal., $\$ 200$;

of R. I., $\$ 25$; J. H.. of III., $\$ 55$ : J. P. B., of Conn., $\$ 25$
N. J. S., of Ala., $\$ 25$; S. C., of S. C., $\$ 30$; U. B. V., of Pa., $\$$ \$3 ; G. C., of N. Y., $\$ 35$; D. B., of N. Y., $\$ 57$; S.
D. C., of Wia, $\$ 30$; J. E. N., of N. Y., $\$ 30$; J. L. A. of N. J., $\mathrm{q}_{1} 12$; and $\$ 30$ ingold from Massillon, O . The
party who made this renittance will pleasesend us his name, that we may crecit the amount. Specifications and drawings belonging to partics with
the following initials have been forwarded to the Patent Office during the week ending Saturday, Oct. 10, 1857 :
C. \& N., of N. C.; McC. \& C., of N. Y.; E. D., of
L. ; C. \& W., of N. Y.; C. R. B., of N.Y. ; N. J. S,
Ala.; S. P., of IM.; J. E. N., of N. Y.; J. P. B., or Conn. ; N. W. H., of

Literary No
A Mantal or Linvar PErbpgorive. By R. S. Smith,
Profesor of Mathematics and Civil En ineering in the
 has thorough know ledge of his subject, and moreover
that the is alle to con vcy it to the reader. 1 It is arranged
in m problems, and has many good illustrations; it will do much toward giving Perspective a place among the
branches of mathematical sienee which it has never oc
cupied before the artist mathematician and stu-
dent. it will be a valuable book.
HYDRIATIO TRFATMENT OF SCARLET FEVER, By Chas.
Munde, It. D. Ph. D. Publighed by Wiliam Rudde,
New York. This is more eapecially addressed to the
 ordinary popular medicald treatise, and wording of a
common sense. We do not approve, however, of any
che common sense. We do not approve however, op an
speciic and patent method of curing disease. for we be.
lieve that each disease is differently developed in eae.
and cise, and requires a treatment pecuiliar to titseli,
discover this is the object of the true physician.


 3us Broadwa, New York. This is a capital work for th
houschold, containing much useful and intereting $m$
ter. To farmers and gardeners it is invaluable.
 plete manner; and were its precepts to be followed by every family, we should not see so many old-young men
nnd women, nor so many deformities and so mucl
disese in
Tur Young Mre's Mafazing for October, publighed
at 348 Broadway, New York, is very good. the two articles on "Fash ionable Amusements" and "Science in
Anerica, "peing especially worthy of antention, as they
are well written, and on popular subjects Tie Eci.gerio Mig. Izine for this month, W. H. Bid-
Well, New York, has a beautiful portrait of Charlote
 tions froun foreign periodicals.
Tir Knowngbocuer-A monthly magazine for Octo-
ber,
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