28,130. -Duncan McKensie (assignor to M. A. E. McKensie), of Brooklyn, N. Y., for an Improvement in Ovens
 pripore ehown and deacribed.
Ialdo claim the enlarreme
end of
I alloo claim the enlargement and downward extension of the rear
end of flue, 1 , in coubination with fue, $\bar{I}^{\prime}$, as and forthe purpose
 pose shown and described.
This invention consists in the general arrangement and construc and a a asgire-place or places, with their arches and bridges or beds, apartmstem of escape flues which lead off from one side of the dire 1 f from the fire and fire arches and flame bed into the oven to the top of the same, and down again, at the front and back ends of the oven hroughacentral five
28,131.-H. A. Reynolds (assignor to R. T. Wilde), of New York City, for an Improved Clamp for Bonnot Frames:
I clalm the elastic clamp, constructed and onerating substantially
as described for purposes substantially such as that specifled.
28,132.-John Stuber (assiguor to John Carton), of Utica. N. Y., for an Improvement in Lamps:
I elaim, first. The air chamber, I and the air tube, K K Ka , as de- de-
scribed, or substantially in that form, in combination with a shallow
can, as described.
Recoond The outer tabe, D, in combination with the cap, E , chim-
ney, $L$, and button, $M$, as substantially described.
28,183. - Eli Tiffany (assignor to himself and George Cooper), of Thompsonville, Conn., for an Improvement in Knitting Machines :
I claig, first, The single presser bar, D, and its arrangements,
whereby it is nade to operate and performthe dutyof the two presser
bars that are now usually employed.
Second, I claim the arrangement of the two sets of needles, cross-
ing each other at right anglea, whereby the barbs of each are acted
ing each other at right angle, whereby the
on $D$ the single presser bar, $D$, recipiocally.
28,134.-G. W. Whipple (assignor to H. Rowell \& Co.), of West Acton, Mass., for an Improvement in
Powder Flasks: Powder Flask
I claim the described cut-off for powder flaskg, consisting essen-
tially of the gate, $f$, disk, $d$ and spring, $m$, operating substantially as
as specified.
28,135.-Benjamin Hardy (administrator of the estate of Aaron Williamson, deceased, late of New York City), assignor to himselt and Thomas France, both of that citjs for an Improvement in Narrow-ware Looms:
I claim constructing one portion of the raceway of a tongued plate
G, applied substantihlly as described, to constitute a guide, which leuves a continnous, unobstructed opening in front of the reed, olear
acrose the loom, substantially as and for the purpose described.
28,136.-J. A. Brock, of Chicago, Ill., for an Improved Amalgamator:
I claim a revolving disk, $e$, pubdivided into a number of recepta-
cles, it in combination with an upper revolvink ribbed disk, 0 ; the eles, it, in comblnation with an upper revolving ribbed disk, o; the
lwo dink revolving in oposite directions, so thsi the ribs of the up
per disk cavts the pulverized ore all over the surface of the mercu
the ore, substantially in the manner and for the purposes set forth. 187.-J. A. Gray, of Alb
provement in Pianofortes:

round the front cornerg, to form the c, apper portion of the exterior of
the case, substantially as described. the case, subseantially as described.
Secouth, Caentint the bottom, C, of the music rack or desk, and the
bincketa, $b$ to which its indes are attached, with what is terned the
fill
28, 138.-G. HI. Jones and John Brown, of Rose, N. Y., for an Improvement in Water Wheels
We claim the employment of the rezulating lever, f, float, $D$, and
gate, actuated by the discharge water of the whieel, to regulate the gatee thereof substantially in themanner and for the purpose shown
speed deecrioed

RE-ISS UES
Thomas Ellis, Wm. A. Ellis and A. D. Elis (assignees of Thomas Ellis), of Philadelphia, Pa., for an Im provement in Casting Boxes for Wheel Hubs. Patented Dec. 6, 1859:
We claim supporting the sand core, $F$, betiveen two annd heads, $F$,
or their equivalents, when used in conabination with a clasmber, 1 , of forifor
C. Anltman \& Co., of Canton, Ohio, assignees of C. B. Brown, of Griggsville, Ill., for an Improvement in Grain and Grass Harvesters. Patented Dec. 7, 1852:
We clasim, firat, The bent main heam, so constructed as to serve
as an axke forthe driving wheel, a finger beam, and a support for the
jear end of the tongue and the glenter rear end of the tongue snd the greater portion of the gearing, whereby the machlne is rendered compact, strong and simple, substautially
as deecribed.
 The arm, Tiue orombination of the pallets, J J, geared together, and alent, ior
C. Aultman \& Co., of Canton, Ohio, asssignees of C. B. Brown, of Griggsville, Ill., for an Improvement in
Grain and Grass Harvesters. Patented Dec. 7, 18.52

We clasim, fiwt, The combination of a skeleton track-clearer with
the cutting apparatus of a mowing macline, substantially as desorrlbed. The construction of skeleton track-clearers of a series of
Singen.
fing , mitstan tinlly as described.

Adolph Brown and Felix Brown of New York City, for
a Marline for Cutting Loaf Sugar. Patented March 24, 1856
We claim, first, The application and useo of tivo or more rollers
having brantops mand their circumfurences, and acting upon both
sidin
 the appewrance of the crystals, ฉas descrived.
Second, We cliniz in a machine for cutting loaf sugar, the com-
Bnatouot two ofrcular surficee, with knives or cutterg on each, and
the knives or outters
the koives or cutters onposite each other , ,ubstathially correspond
ing in form, and so combined that, in operation, the knives or cutters

C. C. Bradley, Jr., of Syracuse, N. Y., for an Improve ment in Grinding the Inner Surface of Cast Iro Kettles. Patented Feb. 24, 1857:
I claim forcing around the interior surf ace loose pieces of grinding
materian, by means of revolving wings or other sutfieient apparatua which shall canse said loose pieces to revolve around, while thley are left free to act uron the surface with which they are brought in
tact, substantially in the manner and for the purpose set forth
G. W. Hildreth, of Lockport, N. Y., for an Improved Mode of Hanging Bells. Patented June 19, 1855 , I claim the eecuring of the bell frmly to the yoke, and suapending
 Hofering thank Eor the bell, and correeponating tupering hole in the
H. H. Stimpson, of Boston, Mass., for an Improvemen in Cooking Ranges. Patented April 5, 1859:
I claim, first, The com
o the side plates of tlie boiler chambers, with the grate constructe

 Second, In combination with the back plate, constructed as de
scribed, I claim providing
the
boiler chamber with flanfe or jections of such grave and whith has to hap overt the lateral end of faid
 substantiafly a a set forth
Third, The use of the eliding covers, $1 q$, in combination with the S. H. Titus and O. Des Granges, of St. Louis, Mo., for an Improvement in Cellular Iron Pavement. Patented Oct. 13, 1857:
We claim combining together a series of hexagonally-formed ribs
and cells, so as to constitute a block of pavenent of the form shown
 We allos canim constructing each cell perfect in itself. and by such
construct ion, making the cells of the upper peri phery of the block not
 Weight equally along th
firm mannerdescribed.
F. D. Newbury aditional improvement
in Revolving Albany, N. Y., for an Improvement I claim the application to cylinders having their cones placed with in cells, or to cylinders so fitted as to require them being capred friom
the rear, of a cuard, constructed of a ring of metal closed a ite end
 suard beine fitted to move independently of the cylinder, or in con
nection with it as required, substan purposes set forth in the above specification.

## Notosedywoving.

F. B. D., of Conn.-You seem to think that a manufac tory of kinding vood in this city must be a novelty. In Cinciu natit there is a large and prosperous conccrad devoted to the manu facture of wrought iron jails: Not long ago, we procured a patent
for a man, living on Long Iiland, fra machine for skinning eels and it would not be surprising to hear, one of these days, that large establishment had been erected for the manufacture of these machines. There is no limiting the progress of inventions and manufactures in this country
C. A. H., of Mass.-There is no work published in thi city on wool-carding and machinery for woolen mills.
G. P. W., of N. Y.-A large wheel runs over an ob atruction more easily than a small one. The draft of a vehicl
G. W. R., of Iowa.-By running two pairs of bur stones of different diameters with the same spur wheels and pinion, we would expect back-lash in one of the pairs, if you have am ple power for driving both at once. The pinions should always be
proportioned to the size of the burrs. You should increase the proportioned to the size
speed of the smaller pair.
E. M. R., of Va.-A bill of exchange for $£ 100$ at pa would cost $\$ 444.44$. To arrive at the cost of a foreign billin our
currency, at a certain premium-say $9,91 / 6$ or $93 / 8-$ multiply the currencs, at a certain premium-say $9,9 \%$, or $\cdot 9 /$-multipls the
unit at par by the rate of premium and add it to the principala; thi will give the cost
. H. T., Jr.-The only work published in this city, on ornamental weaving, is that of C. G. Gilroy, sold by J. Wiley, No 56 Walker-street,-price, $\$ 5$.
S. \& S., of -. -Please to inform ns where you reside and we will write to you about your hay and cotcon prese.
. C. P., of C. W.-We are much obliged for you rule on cutting patterns for the jointa of stove-pipe elbows. It is
no doubt n good one, but the one we published some time ago mus answer for the present.
J. M., of N. Y. -In order to give directions for fixing your photograph, we should require to know the process pureued
in taking it. Your shortest was will be to call on some the art for practical instruction.
W. A. L., of Ill.-Your unsatisfactory experience with the diamond, for dressing millstones, seems to have been the same as that of all who have tried it
J. A., of Md.-Tne method of distilling sassafras oil, which you describe as being practiced in your section of the coun-
try, is as good as any other known to ue. It is simple distillation try, is as good as any other known to ue. It is simple distillation we might have been able to show that, while you had the proper ap paratus, the operations had not been correctly conducted, owing to a want of skill in managing the business.
A. S., of R. I.-It is very difficult to give advice re garding the use of spectacles, either for persons who are short sighted or those whose vision is failing. The best rule to pursue in both cases, is to choose spectacles by which print like that of the Scientific American may be read clearly at about 18 inches from the eyes, which is the natural distance for persons who have good
vision. Spectacles which greatly magnify or diminish the gize of objects at the natural distance should be avoided.
W. B., of Ill.-Your views regarding the action of the paddle wheels of steamers is correct in the main, but the difficulty in the operation of the wheels of the "Great Eastern" is, not thei There is no cheap work on propellers in print in this city.
T. S. S., of Mich.-Your statement that ice-boats simi lar to those which produced so much excitement during the las winte for some time, has heen received. We are pleased to give th credit of the invention to whom it is due
G. M. McL., of N. C.-You state that you wish to ob tain reliable information about employing steam or caloric fo transporting large timber to sawmills. We do not know where yo suppouth then suppose that you want a portable engine for haung the timber small broad wheels.
J. M. W., of N. Y.-The conducting power of a wire depends upon its solid contents-the greater the solid contente, th leps is the resistance. The inductive power of a carrent in the the smaller the wire the A'fine-wire magnet is one of intensity; a magnet having large-wir coils is one of quantity.
J. W., of N. J.-White oak fence-posts will endure much longer if Kyanized. To prepare timber with sulphate of copper, chloride of zinc, or corrosive sulphate, it requires to $b$ wood is satur. This can be done in a vers short period, in wood is eaturated. pump, and the solution forced in under pressure; but as sou hav no apparatus of this kind, we advise gou simply to coat the feet of your fence-posts with warm coal tar. This williender them much more durable.
N. S. C., of Mass.-The muriate of zinc, when used a a preparatory soldering solution is liable to rust tools and all iron some grains of block tin to the solution, and always wash rour tools and articles with an alkaline solution, such as a little sal sod dissol ved in water. This is all theremedy we can offerat present. G. W. J., of Mass.-It does no damage to a steam boiler to blow it out while hot, except gou permit the water to fal below the fre-line. When the fire is strong, and the steam is sce issuing from the blow-cock, it is a sign that the water is too low.

## MONEY RECEIVED

At the Scientific American Office on account of Patent Office business, for the week ending Saturday, May 5, 1860:S. \& G., of Vt., $\$ 30$; S. S. K., of Cal., $\$ 30$; A. P. T., of Ga., $\$ 30$ S.P. G., of Wis $\$ 30$ - E P. M of N. Y $\$ 30$ - W B. Towa, $\$ 30$ P. P. G., of Wis., $\$ 30$; E. P. M., of N. Y., $\$ 30$; W. B. T., of Mass,
$\$ 25$; T. B., of Ill., $\$ 25$; J. B., of Pa., $\$ 30$; M. H., of Conn., $\$ 30$ $\$ 25$; T. B., of Ill., $\$ 25$; J. B., of Pa., $\$ 30$; M. H., of Conn., $\$ 30$
F. G. \& E. A. F., of Ill., $\$ 25$; J. E., of Pa., $\$ 30$; T. \& R., of N. J. F. G. \& E. A. F., of IlL,, $\$ 25$; J. E., of Pa., $\$ 30$; T. \& R., of N. J
$\$ 200$; S. J. S., of N. Y.. $\$ 45 ;$ R. N., of N. Y., $\$ 10 ;$ A. \& B., of N $\$$ Pa., ; J. P. B., of S. C., $\$ 30$; W. H. C., of IIl., $\$ 25$; S. R. B., of Ya, $\$ 30$; T. S. W., of N. Y., $\$ 15$; C. R. B. of Conn., $\$ 30:$ J. B
W., of Tenn., $\$ 15 ;$ C. E. L. H., of Conn., $\$ 30:$ J. C., of Vt., $\$ 25$ W. G., of Wis., $\$ 23$; D. P., of N. Y., $\$ 35$; B. \& C., of Ohio, $\$ 40$ W. D. G., of N. J., $\$ 25 ;$ W. H. A., of N. Y., $\$ 56$; P. V. W., of
Mich., $\$ 25$; K. J. G., of Ind., $\$ 35$; S. \& P., of Cal., $\$ 50$; J. N. J., of Mass., $\$ 30$; M. \& B., of Mass., $\$ 30$; L. P., of N. Y., $\$ 25$; K. \& T C., of N. Y., $\$ 35$; A. C., of N. H., $\$ 57$; L. P. R., of Mich., $\$ 30$; T H., of N. Y., $\$ 25$; H. A. M., of N. X., $\$ 250$; G. H. K., of Pa, $\$ 25$
W. T., of N. Y., $\$ 25$; J. G., of Mass., $\$ 30$; G. S. G., of Pa, $\$ 25$ H W. T., of N. Y., $\$ 25$; J. G., of Mass., $\$ 30$; G. S. G., of Pa, $\$ 25$; H.
\& L., of N. Y., $\$ 25$; C. J. H., of N. Y., $\$ 30$; G. \& C., of N. H., $\$ 15$ L., of N. Y., $\$ 25$; C. J. H., of N. Y., $\$ 30$; G. \& C., of N. H., $\$ 15 ;$
T. \& C. C., of Conn., $\$ 200$; T. E., of Tenn., $\$ 30 ;$ L. A., of Wis., $\$ 30$ T. \& C. C., of Conn., $\$ 200$; T. E., of Tenn., $\$ 30 ;$ L. A., of Wis., $\$ 30 ;$
G. S., of Ga., $\$ 30$ D. D M., of Va., $\$ 30 ;$ G. W., of N. Y., $\$ 15 ; G$. W. B., of Mich., $\$ 10$; B. S. W.. of Ohio, $\$ 25$; J. J., of Pa., $\$ 30$ S. T. R., of IL., $\$ 40$; J. G., of Md., $\$ 30$; D. S., of N. Y., $\$ 10$;
K., of N. Y., $\$ 25 ;$ J. W.. of Maine, $\$ 25$; G. P. D., of Texas, $\$ 25$ W. W., of Wis., $\$ 30 ;$ M. B., of N. H., $\$ 30$; II. F., of Ind., $\$ 30 ;$ H B., of III., $\$ 30$; G. E. F., ot L. I., $\$ 25 ;$ A. B. K., of N. Y., $\$ 30$.

Specifications, drawings and models belonging to par ies with the following initials have been forwarded to the Paten Office during the week ending Saturday, May 5, 1860:-
W. D. G., of N. J.; O. J. P., of Pa.; A. M. C., of N. Y.; W.I. A of N. Y. (2 cases) ; M. B. T., of Mass.; J. B. W., of Tenn.; S. J. H. of IIL.; F. G. \& E. A.F. of IIL., G. W. R., of N. Y.; J. H. C., of N Y.; P. V. W., of Mich.; H. \&L., of N. Y.; J. W., of N. Y.; T. B., o Ill. G. S. G., of N. Y.; W. G., of Wis.; G. IK. K., of Pa; S. S. K. of Cal.; R.J. G, of Ind.; S. J. S., of N. Y. (2 caseb) ; S. \& E.E, of N
 N. Y.; A. H. B. of N. Y; R. N., of N. Y; C. J. H., of N. Y.; W
T., of N. Y.; J. T. H., of Md.; T S. W., of N. Y.; G. F., of L. I of N. Y.; S. K., of N. Y.; K. H. \& T., of Mass.; G. W., of N. Y.; J C., of Vt.; T. M., of N. Y.

NEW BOOKS AND PERIOMICALS RECEIVED. Blackwood's Magazine. Published by Leonard Scot de Co, who also publish the four great British Reviews.
This favorte magaine for the present month, containo i pading
rticle on the Duke of Wellington, another on Lady Hamilton, article on the Duke of Wellington, another on Lady Hamilton, a
review of Allison's Histrry, and the etoryof Norman Sinclair, which
is the autobiogrophy of Professor Ayton, by himself. It is an excellent
Thember. History of Ink, including its Etymology, Chemistry and Bibliography. By Thaddeus Davids \& Ca, No. 127
William-street, this city. Thisis altosether a unique publication, and contains a great deal moreaver, one of the most beautiful specimens of the typographic
art we have ever seen.
The Biblical Reason Why: a Family Guide to Scripture Pleadings and Hand book for Biblical Students. Illus-
tnated with numerous eneravings. Dickd Fitzgerald, pullishera, No. 18 Ann-street, this city. This work exponda, by quartion and answer, the minst impoitan
eventa in the hatory of the Bible -the life of our Siviour and the
acts of His apostes; and, so far as we can judee it is $\begin{aligned} & \text { viluable }\end{aligned}$ acts of His apostles; and, Bo far as we ran judge, it is a valuable
aid to the study of the Holy Scriptures. It has recelved the endorse ment of some of the most emiuent divines of our country.
$\underset{\text { The Haunted }}{\text { authoress, Mrs }}$ Southworth. Publibhed by T. B. Petersoa \&

