THE RISE AND PROGRESS OF INVENTIONS.

## ADVICE TO INVENTORS.

During the period of Fourteen Years which has elapsed eince the business of procuring patents for inventors was paper, the number of applications for atents in this country and abroad has yearly increased until the number of patents issued at the United 8tates Patent Office last year ( $1 \times 59$ ) amounted to 4,538 ; while the number granted in the year 1845 -fourteen years ngo-
numbered 503 -only about one-third as many as were granted numbered 502 -only about one-third as many as were granted
to our own clients last year; there being patented, through the Scientific American Patent Agency, 1,440 during theyear 1859. The increasing activity among inventors has largely augmented the number of agencies for transuctiag such business; and at this time there is scarcely a town of 4,000 inhabitants, but bas its patent
agent, patent lawser, patent solicitor, or patent attorney, all of which terms are used to convey the same idea-viz., that their services are terme are used to convey the same ine inventor or pateatee for a pecuniary consideration.
In this profession, the publishers of this paper have become idenhome and the univereal brotherhosd of Inverore home and abroad, at the North and the South; and with the
increaged activity of these nmen of gening we have kept apaee up
it this time, when we find ourselves transacting a largerbusiues iu
 patherfing sround ue a large cor
 nade is the aqoociation with us of Hon Charles Mason formerly
 high position will be cherished by many an honest ing long in he live.
The arrangement made with Judge MAson renders our facilities for The arrangement made with Judge MABon renders our facilities for
ptosecntiag all kinds of putent busineso complete, however ample
they were before; and without being accused of egotisma we ning they were bef fore ; and without being accused of egotism, we niay
saffely assert that no concern hasthe combined talent and facilites
that we poseess for carefully and correctly preparing applications for
 Opinions relat ipe to Infringements. \&c.
Persons having concerved an idea which thry th nk may be patent-


## preliminary examinations at the patent office.

The advice we render ratuitously upon examining an invention
does not extend to a searcl, at the Patent Office, to ece if a like inven. ion has been presented there, but 18 an opinion based upon what Knowledge we mas acquire of a similar invention from the records in
our Home Ofice. But for a fee of $\$ 5$, accompanied with a mudel or
drawing and deacription, we have a drawing and description, we have a special a nrch made atthe United
States Pateat Onfice, and a report setting forth the prospects ofob-
taining a patent. pxmpthet, glving instructions for furtherproceedings. These prelim.
 persons, under the direction of a gentleman who has spent a lit etime last year through this ofice, and asa measure of prudence and economade. Address M UNN \& CO., No. 37 Park-row. New York

Persong desiring to file n cavent can have the papers prepared on
reasonable terms bir sendiag a sketch and description of the inven.
 r garding applicitions for patents and caveats firnfhaed gratig
application by mail. Aldress MUNN \& CO., No. 37 Park-row, Ne
Oork.
how to make an application for a patisnt. Wvery applicant for a patent must furnigh a model of his inven-
tion, ifsuaceptible of one; or if the invention is a cliemical production, he must furniah samples of the ingredients of which his com-
poition is composed for the Patent Office. These ahould be position is composed for' the Patent Office. These should be securely
packed, the inventor's name marked on them, and sent, with the packed, the inventor's name marked on them, and sent, with the government fee, by express. The express charges should be nrepnic.
Small modefs. from a distance, can ofen be ent cheaper by matl.
The asfest way to remit moneyis by drif on New York, The saf est "ayy to remit money is by draf on New York, pasable to
the order of Munn of Co. Persons who live in remo $e$ parts of the country can usnally purchase drafts from their merchantits on their
New York correspondents; but if not convenient to do eo, there is
 New York.

REJECTED APPLICATIONS.
We are prepared to undertake the investipation and prosecut inn of
rejected casea, on reasonable terms. The close prnximity of our
Washington Agency to the Patent Onfice affords Worthe exnmination and comparison of references, mod oportunities documenters been very. The principal the prosecution of rejected caing, has been vers great. The principal portion of our charge is generally All persong havingrejocted cases which they desire to have pro-
gecuted are invited to correspond with us on the aublect, giving a gecuted are in vited to correspond with us on the eubliect, giving a
brief history of their cise enclosing the official letters, \&c. FOREIGN PATENTS.
We are verg extensively engaged in the preparation and recuring
of patents in the various Vuropenn colntriies. For the transaction of
 Boulvard St. Martin, Paris, and thrue aurthe of all the European
We think we can safely say that thre-foure procured through our
pat nts secured to American citizens are pat nts
Anency
Inventor
Agency.
In ventors will do well to bear in mind that the English law does
not limit the lseue of patenta to inventors. Any one can take out a natent there.
Circulars of information concerning the proper course to be purCirculars of information concerning the proper course to he pur-
sued in obtaining patents in forelgn countripe throuzh our Agency
the requirements of the different Patent Offices. ©c., may be hid the requirements of tren apon application at our principal offic 4, No. 37 Park-row, New
gratis, or either of our branch officea. YK, INTERFERENCES
Weoffer our services to examine wingese in cases ofinterference
to prepare arquments. and anperf hifore the Commierinner or
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pat nte, shouting extensive works for manufacturing under their patorneys, to see fot they are not likely to infringe some existing pateut, before making large "iveestmente. Many persons have been
ruined from adopting the "penny -wise snd pound-foolish " maxim,
 rights, would have saved them much a xiety and money. Written
opinlons on the validity of patents, a fter careful examination into the opinions on the vaidity of patents, a ter careful examination into the
facts can be had for a reasonable remnuneration. Tlue price for such
services is alwars gettled upon in advance, after knowing the nature
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perience in procuring the extension of patents; and, as an evidence
of orir suceesin in this department we would atate
onthat, 10 mense practice, we never loat but two casees-aud those were unsuc
ceasful from cuses entirely It is impor cant thent int ent beyon casear shontrol be nexs of the ntmottakill to enaure succeess. Al documenta connected
 cation. Il business connected with patents, it is most important that extenions \&hould be intruated only to those who have had long ex
perience, and understand the kind of evidence to be furnished the
 ceased Muentee may apply for an extension. Parties ahould arrange
for aprication for an extension at least gix months before the expitation of the patent.
For fulther inf.
For futher information, as to terms and mode of procedure in
otainlug au extension, uddrese MUNN \& CO., No. ${ }^{37}$ Park-row obtainng an
New York.
asignment of patents.

 can Patent Agency, No. 37 Park-row, New York.
patent claims.



## cadtion to inventors.

neither buy nor sell po. witentit. it the biotinctly understond that thes pipare management of the interests and claims of inveutore, to parti
 fifcen years' oberrvation has convinced us that that the selling on
patents cannot be conducted by the eame parties who oolicit them for ther will
bidiness conducted confidentially
 to ua are never divulgen, without an order from the inventor or his
acknowledged representative. trstimonials
The annexed letters, from the last three Commisaioners of Patents,
we commend to the pertual of all persons interested in obtaining
Pat








 of Pateute, a verry large proportion of the business of inventors be
fore the Patent Office was
transacted through your agency, and that
 Attorneys with akill and accuracy. Very respectfully Your obedient gervant, $^{\text {WM. }}$ D. BISHOP.

issued from the. enited states patent office for tur wers enuina ,ene 5, 1860 .

## [Reported Officially for the Scisntific American.]

Pamphilets glving full prrticulars of the mode of applying fo


28,544 P. W. Adaire of Hays' Creek, Miss., for an Improvement in Ditching Machines:
I Claim the combination of the frame, A, and adjuatnole etandard

28,545.--M. C. Andrew of Lawrence, Mass., for an Impro ement in Swinging Bol te sfor Railroad Car Trucks
I claim the comhination of the friction block with the truck frame,
the swinging bolater and itt pendulous links-the same being for the purpose described. aplication of the elastic step to the bolster, in

 | $\substack{\text { springing } \\ \text { deseribed. }}$ |
| :--- |

28 546.-W. J. Andrews, of Columbia, Tenn., for an Improved Sad aron Heater:
I claim the described rack for ead-iron heatera
perating in the manner subtantially as deecribed.
This invention
ubee, of a euitablestrengtb, a colla tubes will serve to hang the rack to the top bar of an ordinary grate and to conduct hot air through them from the fre, and give out heat direct heat the bottoms of the irons receive from the fire ; and in combining with entch a rack a giard plate for protecting the fron from burning or being manked.?
28.547.-John Armour, of Helena, Ark., for an Imp o ement in Sharpening Saws:
I claim forming a narrou
Praim forminh a narrow silt from the bottom of the notch in the
prapier and ahaipener, $B$ into the body of the rinking the sides of said alit into cllose contact with each other be-


28,548.-T. G. A old, of New York Ci , for an Improvement in Drop Light Joints
I laim, first, The construction
I claim, first, The construction of the eocket of a drop light join Seoond Mhe Memploy ment in combination with the gocket, $A$, of
rop
 ning occket aubstantialls ais a nnit for the purpose theceified.
(This invention consiets in a certain construction of the rocke the joint and in a certain mode of applying the lining of cork or other elastic material, whereby provision is made fir the
ontraction or renewal of the said uning when its opening hecome contraction or renewal of the said lining when itt opening hecomes
worn by friction or enlarged by the heat of the burnerto, wlich it worn by friction or enlarged by the heat of the burney $t$, wlich it $i$ applied, or for adapting it to variations in the sizes of burners.]
28,549 .-E. H. A herof, of Buston, Mass., for an Improvement in Appa at se for Naphthalizing Gases:
I claim the combination of the gas-reaeiving and expanding cham
 er adjustroent were explained
Aloo, the cumbination of on- or more propelling wings. or the equip
lent thereof frith the scroll and foat, when applied and used within for the purpose a deseribedsuch propeling devices being to facilitite or eftect the rotation of the
snid froit and acrull while being binved within the liguid, as de-

8,550.-Cyrus A er of Tunkhannock, Pa., for an Improvement in Gearing for Horsc-powel

 ing the same arrangement up to any number deaired, the upper eeriee
held down by the top or cover, D -the whole constucted und work
 Lue intermediate whels, $b$ b b, and the main whel, , wnd the the
ceater pioion, Fis. 7 , both when nt rest and in motion, gulstantially
 to the center pinion, thus enabling mcto dispense withall b ar Fourth. The manuer.
 is post, that will revolve or



 28,551.-W. B. Avery, of Cambridge, Mass., for a Icluim tiée combination and arrange ment vith ne appe construc

 ating to refulate and contr
28,552.-Leopold Benne $t$ of Pittsburgh, Pa., for at Improved Steam Valve

## Iclaim the conatruction of a palve ogeillating or worklng in the

 relieve the steam valve as far as posidbe from unnece asary friction
The valve can be worked by any ordnary eccentric or cam, or an of the usual appliances for working alide or poppet valves.

28,553.-Joel Bo man, of Somerse, Ohio, for an Im provement in Machines for Dressing Mill ones:


28,554.-Joseph Brakely, of New York City, for an
Improvement in Machines for Separating the Quali tie of Bark

 28,555.-Henry Brandt, of Col mbia, Pa., for an Im provement in Bending Teeth for Horse Rakes:
 grooved curved lever,' $K \mathbf{L} \mathbf{M} \mathbf{N}$, made substantially as set forth, fo
he purpoe eppcified. 28,556.-G. C. Brower, of New Orlenns, La., for an Improvement in Gas 'Worches
I lafaim a gas torch constructed substantinlly as described and re 28,557.-Robert Br on of Schenectady, N. Y., for an Improvement in Harve ters
I claim the combination of the finger bar having a bracket, K , an
 he purpose described.
[This invention consists, 18t. In a peculiar arrangement of gear gh for communicating motion from the sickle, whereby a machin of light draft is obtained, and the power applied to the sickle in a ery direct manner. 2d. Ina novel arrangement of e pitman, b quire. 3d. In a peculiar manner of attaching the finger-bar to the ound th erfectly to the inequalitice of the surface of the gro. djustable driver's geat to admit of the asjuat diver on the machine, as circumstances mav require
28 558.-T. V. B sh, of Galla in, Tenn., for an Im provement in Houses for Preserving Roots
1 claim, in combination with the outer walls and covering, a series
of in ner compart ments which inner compaxt ments are surpounded by and covered over with dry earth as a filtering medium bet ween
the roots and the external air, for the purpose of storing and preserv ag said roota, aubatantlally in the manner
28,559.-D. H. Chamberlain, of West Roxbury, Mass
for an Improved Feed for Leather-splitiong Ma chines:
I claim, in combination with a rifid feed roll, $\mathbf{B}_{2}$ the presser roll
composed of independent disks or aections d, confine in a suitable


28,560.-S. G. Cheever. of Boston, Mass., for an Improvement in Machines for Mixing Paints

 and inner series shall move in the other, in combthation with thie

28,561.-S. A. Clapp, of Hamilton, Ill., for an Im provement in Machincs for Packing Flour:


28,562.-S. P. Cobb, of South Danvers, Mass., for an Improved Machine for Finishing Leather
I Illim, in combination with the tool and the vibrator, a meclan.
 the ritiong plate, b, and its sectoral lever, i, and celick applied to the


 I
I Ieleo clasim the combination and arrangement of the four cims
for the
N , heir connections and operatigserems, the eame being
28,563.-Henry Crane, of New York City, for an Improved Bridle Bit:
Iclaim the combinationof the bars, A A C, the latter being fited
with tlee bar, A, connected by ajoint, a , at their inner ende and have Ing a pring, F, attached substantialls as shown and described fo
28,564.-John Dickson, Jr., of Brooklyn, N. Y., for an Improvement in Hat Conformatures:
I clhim. in combinatiun with the bat conformature constructed as ends of one of the ext ension bands, et to metsure the size ot hat, re
garderess of the ehhape, at the game time that said ghape is taken by Baid conformature, as specified.
28,565.-T. S. Disston, of Philadelphia, Pa., for an Improved Machine for Making Tabs for Cross-cut Saws:
 ated as and for che parpane eet forth.
$t$ ing projection arrong gedin respenect obove, the plate, $P$, with its cut-



28,566.-Henry Ehrman, J. H. Ehrman and H. H. Ehrman, of Annville, Pa., for an Improved Washing Machine:


[This invention relates $t$ an improvement in that ciass of clothes-

 gated cylinder connected to the concave by springs and rods, wherebs the latter readered serviceable, when required, for rinsing and other the latter rendered serviceable,
necessary and use ful purposes.]
28,567.-H. C. Fairchild, of Brooklyn, N. Y., for an Improvement in Seed Planters:

## 



## C. as and forthe purposee set forth

This invention consists in dividing a cylindrical seed box in two ing them separated; and in connection with thls, it consists in a novel seed dibatributiag device operated by asemi-rotating movement and arranged in such a manner as to effect the desired object in a superior style.]
28,568. - J. M. Fish, of Buffalo, N. Y., for an Improve ment in Machines for Weighing and Bagging Grain:
 being constructed and
the purposes explained.
28,569.-E. L. Foote, of Springfield, Ill., for an Improvement in Rock Drills:


hind nad C G when constructed, arran ged and operated in the manaer
28,570. - W. H. Gilbert, of Bayou Goula, La., and H. O. Ames, of New Orleans, La., for an Improvement in Apparatuses for Evaporating Saccharine Juices:
We claim the eonected steam train compogad of a serles of open
pans arrunged and connected by
monte jus,"
substantially as and
thirsorsecifed
[The object of this Invention is tosoconstructand arrange an open
steam train as not only to provide for the perfect defecation of the juice in the defecator, which cannot be effected in an ordinary kettle train, but to obviate the defects of the ordinary open steam train.]
28,571. - Amos Glover, of Powhatan Point, Ohio, for nn Improvement in Corn and Cob Crushers:

driver, $m$, cubotuntially as and for the purposes set forth in this spe
cification.
28,572.-James Green, of Kennett Square, Pa., for an Improvement in Seed Planters:


28,573.-Samuel Hall, of New York City, for an Im provement in Coupling for Shafting I, claim the cros8 key, D, in conbibination with the sloted farara, in

8, 574
8, 574.-J. S. Harper, of Baltimore, Md., for an Im-
provement in Core Boxes:
 required, in connection with the open cylinder or tha any other was
substautilly the same and which will produce the inteuded effect. 28,575.-W. A. Harris, of Providence, R. I., for an Improved Heel Guard for Boots and Shoes:
I claim anfixing to the heel part of $n$ boot bhuc or overoboe, $n$ euit
able guard in the man ner substan tially as described and represented This invention consists in applying to the heel part or to the side or to both sides and heel of an indiu-rubber or leather shoe or over sides, a piece or pieces of the same material of which the shoe made, or other suitable material, in such a manner that the same Will serve as a guard or protection to the bottoms of ladeses' blirts or to oiled by rubbing a eing thrown up against the dress, in walking-the guard to be ap iied to the boot, ahoe or overshoe to any convenient manner, eith 28,576 Vi $H$.
8,576.-Vines Harwell, of Walker county, Ga., for an
Improvement in Cultivators:

 28,577.-J. A. Hawley, of Jackson, Mich., for an Im proved Composition for Roooing Houses:
I clain making roofs of this compnoition withont the use of tilee
or elates or canvas, or any other moong material or agente, in conre elates or canvas, or anf other roosing material or agenta, in con-
ection therevith, eubstantially as set forth. 28,578. -James Hollingsworth, of Chicago, Ill., for a

Improved Apparatus for Heating Air by Steam:
 I also claim the arrangement of the deflectors, H I I , between the
team boxes and the boiler, as and for the purpose ghown and decribed.
[This invention coneists in the arrangement of thesteam chest o principal heater within the same air-warming chamber or casing
with the boiler, but so fardet of the boiler that the air to be warmed may pass under it and be tween it and the body of the boiler, by which means a much large team-heated surface is presented to the air in the warming chambe tban when the stenm chamber or heater is within or directly upon the boiler. It further consists in a certain arrangement within the ar-warming chamber, and in relation to the body of the boiler and team chest or heater, of deflectore, for the purpose of directivg the cold air which enters the chamber under the bottom of the steam hest or heater, and at the same time over and in contact with th xposed.]
28,579.-J. B. Hyde, of Newark, N. J. for an Im
proved Material for Facing Molds for Castin

## Metale:

I claim the hereln-described peaty material for facing molds for I also claim the uee of eaid material when combined with othe 28,580.-E T. Incalls, of Haverhill, Mass., foran Improved Machine for Skiving Leather:
I claim, in a machine for skiving counters of boots and shoes, the and the other in a, straight line, or nearry so operatiog substantially
as described, whereby both the curved and stralght portions of the
 the former, so as to be adapted to sklving counters of irregula 8,581
8,581.-Hiram James, of Barclay, Ill., for an Im proved Apparatus for Measuring Liquids
I claim, frot. Me aguring chamber, D, and its internal verticals up-
piy tube, E, comm unicating at jits botton, F, with the chamber, in ombination with the vertical adjustable regulating thabe, Le, essen
ially as dercribed, ot that, by raising or lowring the tube.
Lhe the quantity of measured liquor may be increased or diminisbed, as de-
 uick as described, by means of the siot, $P$, so that the lever may
uis onen and close the stoppers at oneoperation to admit or dis. clarge the mensured tlyuor, without permitting a continuou
o pass from the reservoir tirough the measuring chamber.
28,582.-Reuben Jenkins, of Covington, Ky., for an
Improved Bedstead:
I claim, first, In combination with main bedstead, $A$, the arranga
ment or the seccondary bedstead, $B$, the hollow side raile, $F$, of which are made to elide into, and be accommodated within, the tubular
rails, E, of the main one, in the manner and for the purposes substantially as set forth.
Second, I claim the combination of the divided slats, a a a an joints, b b with the sliding iide raile, $F$; the whole being arranged
and operated in the manner as set fort, tor the propese specified
Third, In combination with the bedstead, constructed as described, having hollow metal posts, I claim the ba pen, $H$, when made of neds sandal or other fragrant wood, arranged in the manner bubutabtially,
as set forth, for the purpose of rendering the bedstead verminproof. 28,583. -W. F. Johnson, of Wetumpka, Ala., for an Improvement in Cotton Cultivators:
C claim the arrangement of the bean, A) wheel, E, sbaf, F, wi th , substantially as and for the purpose set forth.
This invention consists in the use of a rotary wheel atmached to a under the complete control of the operator and rotated by the draft movement of the machine; the whole being placed in such relation with the beam that the knlves or hoes will pass obliquely over the ows of plantsand cut or tear them out, as required.]
28,584.-Herman Kaller, of Perry, Ill., for an Improve ment in Grain-binders:
 ing as and for the purpose deacribed. Slacond, ronstructed and operating substantially as and for the pur
clamp, J. cose specified.
Third, The
Third, The combination, with the rotery apring catch, $K$, of the
two-armed fork, $M$, substantially in the manner and for the pur pose
described.
[Thls invention consistoin combining with a ribretingearred arm,
which sinks down into a recess in the platform in order to receive th with suitable wipers and cams in such a manner that, by operatin the curved arm, the grain is held, and by rotating the shaft the wire is cut and twisted around the grain, leaving the gavel in complet order. The wire is confined in a clamp by means of a dog, and while being twisted, is guided by a two-armed fork, which embrace a circular or oval space to give roons to the wire to be twisted.] 28,585.-G. L. Kelty, of New York City, for an Im proved Window Curtain:
I claim the lambarkin or fixed window curtain, of buckram or
other material, covered in the manner specified. 28,586.-Balthasar Kitt, of Cincinnati, Ohio, for an

Improvement in Rincing Bells:
I claim, first The arrangement of the clapper, $J$, attached to the
 Second, I claim the arranceraent described, in relation to the bell,
the and by which the sound shall follow eact cordant sounds.
28,587.-Stephen Krom, of New York City, for an Improvementin Buttons:
 wcribed, so tbat the head of the screw, by being drawn into the re-
cess formed on the underside of the washer, preserves the evennese
of theinner cess formed on the underside of the washer, preserves the evenness
of the inner surface of the loth or other fabic to which the button
is attached, affording, at the same time, a good hold on the clouh. [This invention relates to an impravement in that ciass of but ons which are secured to the cloth or other material by means of a screw, and it consists in the use of a flanged washer in combination with a at-headed screw and a butten-ehaped nut, so that, in screw-
ing this button on the screw, the cloth or other fabric is firmly reained butwon the the crew and the washer, ind anined betwe hae head of serw and washer, and that reason of the flange on the underside of eaid washer, the cloth or
other fabric is clamped at a certain distance from the hole through thich the screw pasees, giving the button a frm hold and allowing the head of the screw to sink in slightly, nearly to a level with ine ingide surface of the fabric and at the same time, preventing injurg tothe cloth or othermaterial from turning the button round in ecrew. ing it down.]
28,588.-George Leach, of New York City, for an Im provement in Pull Cocks
I claim the arrangement of the follower, 6 , npring, 5 , and acrew, 7
In connection with the handle or pull, $c$, and $i t y$ screw, 8 , for the pur 28,589 J. W.
28,589.-J. W. Logan, of Philadelphia, Pa., for an Im-
provement in Securing Reef Points of Sails:
I claim, first, Securing sinfle-reef nettles by passing them througlt
eyelets and fastening one side by increasing the diameter of the rope, and the otherby reculing the nettle by eeizing to a jack-line, subStantially as described.
Second, Securing double-reef nettles by placing the center of the
double-reef nettie close to an eyelet and fastening it by seizing

28,590.-John Matthews, Jr., of New York City, for an
Improvenent in Galvano-plastic Coating for the
Interior of Metallic '「ubes:
I claim, first, The extension or stretching of the tube by screw
threads and nuts, or their equivalents, substantially as and for the purpone set forth.
Second, The $u$ ef non-conducting supports, $b \mathbf{b}$, applied substan tially ya and for the purpose specified
Third, Providing for the Congitudinal movement of the central conductor and its non-conducting supports, b b, within the tube, sub-
stantially as and for the purpose set forth. 28,591.-J. W. McLean and Albert Grummer, of In-
dianapolis, Ind., for an Improvement in Shingle Machines:
 28,592. -George Milliran, of Byhalia, Miss., for an Improvement in Cotton Presses:
I claim the arrangement and combination of the carriage or beam,
E, topgle lever. D, and follower, C, provided with the friction roller
or rollera, f , substantially in the manner and for the purpoies speci-
28,593. -Matthew Mitchell, of Altona, Ill., for an Irmprovement in Seeding Machines
B inaim the combination of the perforated oscillating rim or band, B, statinnary perforated cylinder, (,) and cut-off, e, artanged sub,
stantially aa described, and refisivive with the aedd box, $A$, and the
tube, D, to onerate as and for the purpose set forth,

 forth.
[This
This lnventlon relates to an improved seed-distributing device, whereby the seed, in passing from the seed box to the furrow, is sub-
jected to two dropping operations, and the seed properly dropped in the furrow prepared to receive it.]
28,59i.-Wm. P. Moses, of Exeter, N. H., for an Improved Currying Knife
I claim the guard, $D$, a a aplied to a currying knite, substantially
in the manner and for the purpose specified. 28,595.-Danicl Moyer, of New Hamburgh, Pa., for an Improvement in Corn Planters:
I claim the arrangement of the center beam, $A$, wheel, $a$, arme, $B$
B and $C$ C.
 28,596.-Robert Nicoll, of New York City, for an Improvement in Stop-cocks:
I claim the emplosment or use of two valves, D E, placed at oppo and from the seat by means of the right and left screws, or their [The object of this invention is to ob
its passage within obstructed in a much iesadegre which will bave valve-seat. The seats of ordinary cocks, as is well-known, require to he of a certain degree of thlckness, in order to sustain the preseur fthe valve, and this thlckness acts as a great obstruction to the pas sage of the water or steam tbrough the cock.]
28,597,-P. H. Niles, of Boston, Mass., for an Im
proved Telescopic Drinking Cup:
ciaim making the cup or bottom part, $A$. and one or more of its
nnular sectione, $B$, with bottom flanches, $b$, and applying the cover so as to fit the bottom part, A, and proiect over the eame and
the upperedgea of its annular section or pections, as described.
28,598.-F. S. Otis, of Brooklyn, N.Y., for an Improve ment in Dcvices for Manufacturing Skeleton Skirts:
clalm the combined reel and former, constructed substantially as

28,599.-George Palmer, of Littlestown, Pa., for an Improvement in Pumps:

 as deseribed, for raising und forcing water, as set forth.
[The purpose of this invention is to facilitate the oneration of the pump, render the same uniform or regular in its action and capable tion consists in the use of an elastic or fiexible diaphragm, placed within a suitable $c$ se or chamber provided with spring stops ; the within a suitable coe or chamber provided with spring stops; the
elastic diaphragm being connected to a loaded lever, and the whole as to
28,600.-C. G. Plympton and H. M. Plympton, of
Walpole, Mass., for an Improvement in Tempering Steel Springs:
Weclaim the application of water to steel article, while the latter
are properily heated and subjected to presure

28,601 -Whitma Price of Way
601. - Whitman Price, of Way
for an Improvement in Plows:

I claim the arrangement of A, the circula beam, $\mathbf{B}$, the e tand ard,

28,602.-Whitman Price, of Mount Olive, N. C., for an Improvement in Machines for Planting Cotton Seeds
 for the purposes set forth
28,603.-Eben Pritchard, of Waterbury, Conn., for an Improvement in Calendar Clocks:


 one days throughout every quadreanial period.
secoond The Thembination of the pin, 9 , on the cam, or its equivalent, and the lever-like espring, 7 , anpplied tovoroning can hre top paivali,
purpose specifed.
[This invention consists in certain novel and very simple and sure meass of effecting the completion of the revolution of the month
wheel at the termination of the monthe of less than thirty-one days throughout every quadrenniul period.]
28,604.-A. H. Rauch, of Bethlehem, Pa., for Improved Devices for Drawing Water from, and Supplying Air to, the Air Vessels of Pumps, \&c.


[This invention consists in a novel and simple device whereby the air vessel of a pump may, while the pump is in operation, have a pheric pressure sion of the air, arrived at too high a level in the air vessel. The same device is also applicable, in the same manner, for a similar purpose to hydraulic ramb. or
28,605.-C. F. Richter, of Columbia, S. C., for an Improvement in Plows:
I claim the construction and arrangement of the two pieces, E G G,
the mold board or share, Hill and their several connections, for the purpose of uniting them tosether and allowing the mold board to be
adjusted to the pieces, $\mathbf{E}$, substantially as set forthaud explained. 28,606.-G. W. Righter, of Pbiladelphia, Pa., for Improved Porter Bottle Boxes:
 rods, E E E E, pubtantially in the manner and for the purpose set
forth, proved Churn:
I claim the revolving of the cluurn-dashers, $O$, and handle $L$, by
manan of the peculiarly con structed series of dabliers. O a nd blades, N the whole being constructed and working as described above. 8,608.-O. P. Rowland, of Jamesport, N. Y., for an
Improved Elastic Lining for Boom Jaws: Improved Elastic Lining for Boom Jaws:
I claim the application of an india-rubber roll, R, as a lining for
boom, maff and yard juw, constr'ucted, arranged and operating subtantially as and for the purposes eet forth.
28,609.-J. S. Sammons, of New York City, for an Improvement in Car Couplings:
I claint the bar or catch, E, dog, D, anddig engaging lever, F, comout the spring, 1 ; all being placed within the bumper head, and ar-

elf-attaching and which may be uncoupled or detached without the ecessity of the operator or attendant passing between the platforms of the cars.]
28,610.-Charles Scoficld, of Adams, N. Y., and Clark Rice, of Watertown, N. Y., for an Improvement in Sewing Machines:
We claim the combination, inthe manner shown and described, of
feeding dog, $P$, with the slide, $L$, and cams, $M M^{\prime}$, for the purpose set forth.
We alio chim the combination of the pliding wedge, $Q$ with the
epring fecting. dng, $P$, slite, $L$, aud cams, $M^{\prime} M^{\prime}$, as and for the purWo.th slown nal dlescribed.
We also chinm the comilnation of the pivoted lever hook, 1 , with
 28,611.-Gcorge Scott, of Cincinnati, Ohio, for an Improvement in Mulds for Jars:
I claim a tivopart mold for mording jare, when the parts 1 and 2
thercof arc male and adiated tobe ued with a potters' lathe, in the
manner substantiully as described.
28,612.-E. A. Smead, of Tioga, Pa., for an Improvement in Corn-shellers:
I claim the employment of an upright acroll-shaped ehell, E. and
druin, A, armned nad operating in respect to each other as shown
This invertion consts in combining
form of a conic frustum, a scroll-shaped concape hited drum, of the vertical or parallel with the axis of paiddrum and its lower edge tapering inwards, so as to prevent the eary from eseaping through the bottom of the machine and to shell the grain from the points of the ear, and having the dischargenperture
feed, the same being fiuted or ribbed.]

28,613-CC. F. Spencer, of Rochester, N. Y., for a
Improvement in A nti-friction Screws and Nuts: Improvement in Anti-friction Screws and Nuts:
 tinn with ascrew, A.which litis screw threade for
substantially as and for the purposes specified.
28,g14.-J. K. Staman, of Mifflin, Ohio, for an Improved Boot and Shoc-wiper:

28,615.-Ptollman Stover, of West Alexandria, Ohio,
for an Improvement in Corn Planters:
Iclaim the peculiar arrangement of the measurlng, space, having
an elastic back piece, $k$, and an adjustable front viece,j, in connection

28,616.-James Stratton, of Brooklyn, N. Y., for an Improvement in Devices for Regulating the Pressure of Water in Pipes:
 ion with the supply pipe, A, valive, C, and pipes, DF G, with neees purpose ber forth.
I further clash.
I further claim, in connection with the a bove-named parts, the per-
forated cap or chamber, $J$, encompassing the valve, $C$, substantially forated cap or chamber, J enco.
as and for the purpose set forth.
[This invention relates to an improvement on a device for regula ting the pressure of water in pipes, for which Letters Patent were granted to the inventor, bearing date the 22d day of November, 1859.]

28,617.-James Taylor, of Dartmouth, Mass., for an Improvement in Liquids for Fluid Gas Meters: 1 claim the use of the bittern or mother-water left after extracting
the crymatizable salts from gea-rater for filling wet qas meters; all 28,618. -Benaiah 'Titcomb, of Baltimore county, M for an Improvement in Harvesting Machines:
for an Improvement in Harvesting Machines:
claim the hinged lever, 1, provided with the spherical roller, $D$,
its equivaleut, constructed, arranged and operated substautially as I claim the hinged lever,
ord its equivaleut, constructed,
and forthe purposes set forth.
and forthe purposes set forth. provement in Car Springs
I claim the disks, $d$ d $d$, the caps, a b, the rings, $c$ c, and the cen-
tral bearings e e, when constructed and arranged substantially in tral bearings e e e,
manner set forth.
28,620.-L. Waddel and W. H. Waddel, of Staunton, Va., for an Improvement in Car Couplings:
Weclaim the combination of the lever and latch, in the manner
described, with egpecial reference to the eecurity of the coupling and described, with especial reference to the eecurity of the coupling and
the easy detachment of car's when iu motion, and even going up
grade.
We do
not claim the swinging plate for the purpose of admitting the link, that being some what the principle both of the swinging pin
and tumbler catch, which are common; nor do we claim it for the
 28 621 Tho Wall

Improved Bedstead
I claim the flanged socketg and hooked fasteners or clasps, as de Iclaim the flanged bockets and hooked fasteners or clasps, as de-
scribed, when usedin combination with the windlasa rail, F, withits
pin, $f$, ratchet, pin, f, ratchet, $e$, an
purimes set forth.
28,622-Alnnzo Warren and E. Damon, Jr., of Boston, Mass., for an Improvement in Hanging Turbine Whecls:
Weclain the globe coupling, A, in combination with the adjust-
able cereve step, B, the bame being used for a vertical turbi ne shaft
in the manner set forth. in the manner set forth.
This invention consists in a novel combination of hollow spindle shaf, with globular enlargement, adjustable step and stationary shaft, whereby a very short hollow shaft may be used, adding on the top the necessary length of solid shaft. In consequence of thus
using a short sbaft, there will be less trembing when the parts are in operation, and the parts may be kept well lubricated and in good working order fora great while,
28,623.-C. L. Williams, of Quincy, Fla., for an Improved Detachable Hook for Suspending Boats: I claim the combination of lever, $\mathbf{C}$, rod, $G$, with shoulder, a, on
the bar, $A$, and the treadle, $J$, all arranged aa aud for the purposes the bar, A,
specified.
[The ob
[The object of this invention is to attach or detaeh life-boats from their tackle by a device which, while it forms a sccure attachment
when the boat is not needed for use, will automatically liberate the same as soon as it touches the surface of the water; thus a voiding the danger of having the boat stove in, and no more than ordinary care is necessary in working the tackle. This invention coneists in the the lower whe concal enlaagements on heir ends chat hang from tom and sters of the boat to be ang from shaped brackets, which are provided with levers that in conjunc tion with ehould forme on the conical ends of the rods that are attached to the tackle by virtue of the gravity of the boat acting upon the lever, so that, when the boat touches the water, the levers will cease to act, and couse quently release the boat entirely from the tackle.]
28,624.-T. H. Witherby, of Worcester, Mass., for an
Improvement in Rotary Engines:
I claim the abutment, S, applied in connection with the abutment, is and for the purpose eet forth.
[This invention relates to the further improvement of the im. proved rotary engine of the late John II. Hathaway, which forms istrator, Charles Pice, the object of such 15, 1859, to his admi. provide for the reversal of the rotary motion.]
28,625.-Joseph Woodruff, of Rahway, N. J., for an
Improvement in Harresters:
I claim the arra ngement of the levers, $\mathrm{L} L L^{\prime}$, nulless, i and k , and
cord, h 1 and $m$, for operating the recin rocating curved kife , as and
for the purposes set forth and described.
28,626. -Lum Woodruff, of Ann Arbor, Mich., for an Improvement in Baometers:
I clnin the acrew plig, cenetructed and applied to the reservoi
and cistern, aubstantially as described and operating as set forth. 28,627.-W. C. Bement (assignor to himself and James Dougherty), of Philadelphia, Pa ., for an Improved Machine for Cutting Key Seats, \&c.:
I claim, first, The described combination of the reverpibe screwed


## when the screw is caused to impart a n uniform reciprocating motion to the drillsor to the object nprlatrd on by the drills. Second. The hollow nrindly, I, its chitches, $K$ and $K^{\prime}$, beve



Thith Third, operatiug the reverving clutches from the carringe which car ries the drills or which carriesthe objectacted on by the drill r, tlyrough
the intervention of the T-shaped lever, $Z$, or its cquivalent, with its
 and for the purpose et forth.
Fourth, I claime in


 one of the drllls, with a movable nut, 1 , fo arrianged ni to be thirown
out of gear with the acrewed shaft, Eb the head stock which carrieg
the opposite drill, through the intervention of the devices described, the opposite drill, th
or their equivaletts.
28,628.-Chester Bullock (assignor to himself and De Forest Weld), of Jamestown, N. Y., for an Im provement in Mowing Machines:
I claim, first, The arrangement of means recited for connecting
the frame or bars of the fiugers and cutters to the frame or body of
the fawer the mower or macrine. suspension and for suspending
by the side of the mower.
Tlui Third, The means recited for uniting the cutter bar to the connect Fourth, The arrangement of means described for connecting the
draf pole to the mower or machine frame, and for the purposes set firth. The manner of attaching the cutters to the fingers and cutter
bar described. 28,629.-Isaac Cook (assignor to himself and Hugh

McClure), of Mount Pleasant, Iowa, for an Im proved Washboard:
I claim, first, The combination with an ordinars rashboard nf the
recip rocating and hinged rubbers and frames working in suitnble recip rocating and hinged rubbers and frames working in snitn
groo ves, and made yield in $s$ to the varying thicknesses of nrticle placed between the rubbers and board, as and for the purposes se
forth. Second. The arrangement, in combination with the above recipro-
cating rubbers and frame of a suitable pump arranged eo asto fupply water to th
set forth.
This invention consists in combining, in a novel manner, with an ordinaryhand-washboard, a swinging frame, capable of receiving a reciprocating motion over the surface of the board, and in suitably bringing within this frame a rubbing board furnished with rollers or rubbing elats, which receives the articles to be washed between it and whiloragated surface of the washboard, holdo rubbers may be rapidly moved up and down with thame hands, giving to the clothcs $a_{2}$ thorough rubbing, controlled entirely by the hand. And in con junction with this arrangement, the invention also consists in giving to the rubber and frame, in their attachment to the wash board, an elastic, sielding action, so that the ame will themsclves be adjustca to the bulk or varying bulk of articles placed between plying to the side, back or other convenient place about a wash board having a reciprocating rubber, a pump arrangement, which shall be operated by the motions of the said rubber, so as to force water $f r m$ the tube below up alongside of the board and over on to the articles undergoing the washing operation; the object of which arrangement is to keep the articles well soaked with water whilo they are being rubbed.]
28,630.-P. D. Cummings (assignor to D. H. Furbish),
of Portland, Maine, for an Improvement in Chains: I claima chain link strap, one of whose ends has a head formed on asdescribed
I also clain
I also claina an onen coupling link for chaing, with ears located at
the outer sides of the legs of the link, as des cribed. 28,631.-P. D. Cummings (assignor to D. H. Furbish),
of Portland, Maine, for an Improvement in Gearing:
I claim a unirersal reversible bolt standard, constructed substan-
tially as set forth, for the purpose of securing a driving wheel to a
carriage wheel I also claim the combination of the universal reversible bolt atan.
dard deacribed with the drlving wheel by meane of a fiange upon the dard deecribed with the drlving ww
latter, substantialls as desclibed.
28,632.-David Fellenbaum, of Lancaster, Pa., assignor
to himself and Nathanicl Baker; of Marictta, Pa.,
for an Improved Variable Cut-off for Steam Eugines: I claim, firet, The stationary lifting pifcep, ff applied and oper.
ating in combination with the stems of the puppet valves, subetan-
 attached lo the slide valve , B and the tripping peece, D, made add
justable within the steam eheat; the whole piplicd and operating in
combination with the alide and puppet valves, substantially as and

 28,633.-H. W. Fuller (assignor to hinsself and A. W. Goodell), of Brooklyn, N. Y., for an Improvement in Mech





28,634.-C. J. Haywood (assignor to the Merriam Manufacturing Company), of Durham, Conn., for Manufacturing Company), of Durham,
an Improvement in Making Tin Boxes:
I claim, first, A properly constructed and arranged friction device,
abstantially such as devcribed, for eeculting a luear or bottom ota tin abstantially such as deqcribed, for eecuring h liern or bottom of a tin Second, I cla im a new manufacture of an old article or tin box, for
various purposes, by a new process, substantially in the mannerde. varions $p$
scribed.
28,635.—Suspended.
28,636.-Wm. May (assignor to J. de Bringe, E. A.
Ramsey and W. W. Ramsey), of Winchester, Ohio
for an Improvement in Sclf-acting Wagon Brakes:
clajm, firnt, The chain, $I$ operating in connection with the slotted

## tongue plece D, when operating

butct tor than inpose described. of the upon the same lever with
 combination ns deseribed.
28,637.-W. H. Noyes (assignor to H. T. Litchfield), of Boston, Mass., for an Improved Gage for Filling Barrels:
I claim combining with the filling tube, A, the groove or chambery,
B, and its fiout, $C$, furnished with an adjustable glide or indicator, ${ }^{\text {an }}$, deecrived.
28,638.-J. C. Reed (assignor to himself and S. E. Hutchison), of Cincinnati, Ohio, for an Improvement in Picks:
I claim the employment of the rebate, F, in the jaw, $D$ when used
in connction with a sping jaw, E , and slide, $H$, to hold the bitt, the

28,639.-J. F. Schuyler (assignor to W. E. Lockwood) of Philadelplia, Pa., for an Improved Arparatus for Dressing Grindstones:

 substantiully in the wainef and for the pupsich
28,640.-John Tiebout (assignor to himself and IVilliam Tiebout), of Brooklyn, N. Y., for an Improved Bung-cutter:

 the purpose slown and deecribed.
(Tipe object of this invention is to cut different sized bungs or corks with the same set of cutters, and it consists in arranging the cutters dist that is rigidly secured to the driving sbaft, and which slide up and down in adjustable guides that are secured to another disk, so that the points of the cuttersare spread or brought closer together a the bent portions of the arms passes through said guides, and that bs udjusting the guider and the movable hinges different sized bung or corks mas De cut.]
28,641. -Joshua Turner, of Cambridgeport, Mass., as
Warren Covell, of Decham, M. Can im proved Machine for Buffing and Reducing Leather I claim the combination of the rotary grinder, B, the bed roller, $E$, fosier claim the application of the feed and bed rollers to a rocker
frame, or its equivalent, and combining therewith device sub stantially as described, whereby the two rollers masy not only be
simpulsueusy moved away from and toward he buffing cylinder, B,
but
 means.
I alao claim supportipg one of the rocker frame bearings in a slider
and providing zuch with adjusting screws, the ame being for the and providing surf withadjusting screws, the tame being for the

The New York Rubber Company, of New York City, assignees of C. H. Hinckley, of Stonington, Conn., for an Inproved
Sept. 29, 1857:
claim constructiog hose of fexible tubing of textileand fibrous
 coating on the outside of the cloth or other pipe, and then inverting
the coating pipe oy drawing it over and through a metallic cylinder,
or otherwise suitably inverting the same.
Jacob Swartz, of Buffalo, N. Y., for an Improvement in Grain and Grass Harvesters. Patented Nov. 14 , 1854:
I claim, first, The combination of the main frame, A, carrying the
cutting apatutuh, and the finger bar, C, with the vibratible

 equivalent; the whole arrnaged
orallof the purposes set forth.
Third, The comblnation of
cutter bar, y, when the bar is connected trame A, finger bar, C, and vibratable coupling arm, $Q$, and the whole is arranged eo that the
relation between the finger and cutter bars is not materialls changed in raising and lowering the cutting apparatus, substantially as deFourth, I claim the combination of the main frame, $A$, sho o 0
shiel. $C$, and the vibratale counting arm, $Q$, or its equivalent when the whole are constructed and operatesubstantially as specified
for the purpoge set forth.
Fifth Iclain the combination of the short finger $b r, C$, and the
 srm, with the main trame, A, when the several parts are constructed
arranged and operate in the manner and for the. pur ges geecified. Sixth, I claim the combination of the short finger bac, ©, the shoe,
C' div ider ga, and main frame A, when the sid finger bar, \&hoe C' divider, $\mathrm{g}^{2,}$, and main frame, A, when the said finger bar, , hoe
and divider are each conntracted in the peculiar manner specfied.
nnd the whole arrauged together and with the main frame, as and for e purposes describ.
Cyrenus Wheelcr, Jr., of Poplar Ridge, N. Y., for an Improvement in Grain and Grass Harvesters. Pat
anted Feb. 6, 1855: ented Feb. 6, 1855:
With leim, frest, substantialuy as heanged finger bar and main frame, With levera, substantially as described, extending towards the
driver's or conduc $r$ 's scat, as that the occupant of said seat can,
without leaving his position, raise up elther end of the finger bas without leaving his position, raige up elther end of the finger bar cure, substantially as described
Second, I claim the platform
Second, I claim the platformb bar, $Q$ a as a means of securing the
platform the the finger beam, and for grenethening side finger beam
when it has the platform to carry, subetantially an deacribe platform to the finger beam, and for atrengthening said fin ger bean
whipn it has the pattorm to carry subtantiall an described.
Third, $I$ claim the inclined caster wheel, S, arranged as represente and in combination with the castef orm, whereby the latter representerted
When the machine 18 being turned short around to the right, substan-
iallyas described.
Fourth, Iain in combination with a finger beam and platform
placed in rear of the main supporting wheel, the two casters, is, arplaced in rear of the main supporting wheel, the two casters, Nintron
ranged as deacribed, forsillowing the machine to turn short round
the right, for the purpose specified. the ripht for the purpose specified.
Fifh, it claim a revolving track-clearer when opernte
ground wheel through gearing substantially as deserited.
C. H. McCormick, of Chicago, IIl., assignee of L. J mick, for an Improvement in Reaping and Mowing mick, for an Improvement in Reapin
Machines. Patented May 11, 1858:
Machines. Patented May 11, 1858:
I claim making the finger beam of a mowing machine of a bar Ir clarm making the finger beam of a mowing machine of a bar nf
iron wedgeformed in its crooss section with its formard edge, which
carries the fingers made thin, that the sickle masact upo and cut
 kepp the cutting edpe ofthp sickle clear of obstructiong, whilstat the
same time it can have access to leuning grass, all substentially as de-
ccribode
H. McCormick, of Chicago, II., assignee of L. J.
McCormick, W. S. McCormick and C. H. McCor McCormick, W. S. McCormick and C. H. McCor-
mick, for an Improvement in Reaping and Mowing Machines. Patented May 11, 1858 :
I claim, first, An inntrovenent adaptine the machine to nowing riving wheel, in combination with the nain fraine having the cu ting apparatus projectin on one side thereof and carrying the other
portion of the gearing, the whole arauged substantiallyas and for portion prpose specified.
the peco
Second, An improvement adapting the machine to reaping grnin,
anaisting in the combination of the main frame carr ansisting in the combination orthe main frame carrying one portion
af the geartrg and having a platform, grain wheel, divider and cut Ifthe geartig and having a platiorm, grain whel, divicer and cut-
thar aparatiss projecting on one side theroof with auxiliary frame
vork, the other poition of the gearing, the driving wheel, a pivotal

 ng the main frame and platiform to, and holding thew at differen
hiehte substantially as described.
Third, An improvement applicable to the machine when adapte or either mowing grase or reaping grain, and consiisting of the com bination of the sector with the reversible detent, adapted to perf form
ag the double daty of detent and guide, substautially as described
C. H. McCormick, of Chicago, Ill., assignec of L. J McCormick, W. S. McCormick and C. H. McCor mick, for an Improvement in Reaping and Mowing Machines. Patented May 11, 1858
I claim the guard finger, having a thin ahank
strengthening rib, substantially as described.
C. H. McCormick, of Chicago, III. for a in Machines for Cutting Grass, \&c. Patented Sept 21, 1858.
I claim the combination of the sickle having the scalloped or in-
dented edge and serrated reversed teeth, with a series of fingers having the back reversed angles for supporting the brinin or grase to bove the edge only, substantially as described.
 C. H. McCormick, of Chicago, Ill., for an Improvemen in Cutting Apparatuses for Macnines for Cutting Grass, \&c. Patented Sept. 21, 1858
I claim the combination of a series of slotted fingers with a vibrat ing scalloped cutter, havizs projections on both its upper and uniter
aidee to facilitate the detachauett and discharge of clogging matter ubstantialiy as described
C. H. McCormick, of Chicago, Ill., for an Improvemen in Machines for Cutting Grass, \&c. Pattented Sept. 21, 1858:
I clnink, in the combined blade and bar ofa acalthped vibrating cut-
ter, making the bar extend behind the blade, autsuattibily as de
EXTENSION.
Daniel Carmichael, of Brooklyn, N. Y., and Jason C in Dredging Machines. Patented May 30 , 1846 I claim the manner described in which we have connected and
ombined the geraper staff or arm with the maohine, sothat it mas be aieed or lowered of means of the racke and pinione (by the aid of
 ng and chain combined with said mastas used for that purpose
an the original mach ne oi Otis.

Nork-In the above list of claims, isoued for the week endin June 5tb, we recog口ize tupgry-
cited thiongh this office. - Ens.

## MONEY RECEIVED

At the Scientific Americau Office on account of Patent J. C. C., of Conn., $\$ 73$; J. H., of Pa., $\$ 25 ;$ J. R. C., ot Ind., $\$ 20$ L. A., of Wis., $\$ 25$; W. W.. of Wis., $\$ 25$; J. A., of Ill., $\$ 10$; J. ' C ., of La., $\$ 55 ;$ L. E., of Mich., $\$ 45$; J. K., of N. Y., $\$ 25$; E. C. C., o
 of III., $\$ 25$; G. K. P., of Mase., $\$ 30$; J. O. C., of Cunn., $\$ 28 ;$ H. T. P., of N.J., $\$ 25 ;$ J. M., of N. Y., $\$ 75 ;$ S. T. V., of R.I., $\$ 25 ;$ M.
B., of R. I., $\$ 30$; F. H., of S. C., $\$ 30 ;$ J. P. A., of Ga., $\$ 25 ;$ N. M
 D., of Ohio, $\$ 30 ;$ G. W. R., of N. Y., $\$ 100$; E. W. F., of La., $\$ 25$
D. P., of III., $\$ 30 ;$ M. B., of N. H., $\$ 25 ;$ H. E., of N. Y., $\$ 30 ;$ J. S. of Ill., $\$ 25$; R. W. P., of Mase., $\$ 30$; C. M., of Wis., $\$ 30$; A. I^, o of Conn., $\$ 25$; T. \& S., of In., $\$ 25$; D. B., of Mich $\$ 550$ E. G. T. of Wis., $\$ 30$; W. T. Z., of Tenn., $\$ 55$; C. G., of La., $\$ 55 ;$ A. S. B I Iowa, $\$ 20$; J. P. M., of IIL., $\$ 10$; J. P. H., of La, $\$ 15$; I. W., o J., $\$ 30$; J. G., of M888., $\$ 35$; J. B. L., of N. J., $\$ 30$; E. L. P., Coun., $\$ 30$; C. D., of Mass., $\$ 5$; D. B., of Mich., $\$ 25$; K. \& H., N. Y., $\$ 25$; N. Q. M., of Wis., $\$ 25$; G. A. L., of III., $\$ 25$; J.H., Iowa, $\$ 30 ;$ D. W. M. L., of Ohio, $\$ 25 ;$ F. A. G.., of Ill., $\$ 25 ; \mathbf{C}$ C. B
C., of Maws., $\$ 30$ G. Gan C., of N. J., $\$ 28 ;$ B. S. P., of Conn., $\$ 15$ J. S. B., of N. Y., $\$ 25$; O. \& W., of IIL, $\$ 30$; O. \& L., of N. Y., $\$ 25$ J. S. McC., of N, Y., $\$ 40$; J. M., of N. Y., $\$ 30 ;$ A. O., of Pa, $\$ 70$.

Specifications, drawings and models belonging to partics with the following initials have been forwarded to the Paten
Offee during the week ending Saturdag, June 9, 1860:Offee during the week ending Saturday, June 9, 1860:
H. \& P., of N. J.; A.P.T., of Ga.; E. A. L., of L.I.; C.T. P., of ILI.; II. \& F., of Ga.; T. \& S., of Ill.; J. S. of Ill.; L. \& W.,
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