

ISSUED FROM THE UNITED STATES PATENT OFFICE for the wrki endina apail $21,1863$.
Reported officially for the Seientific 1 merioan.
${ }_{*}^{*} *$ Pamphleta containing the Patent Laws and full particulars of the mode of applying for Letters Patent, specifying size of model required, and much other information useful to inventors, may be had gratis by addressing MUNN \& CO., Publishers of the Scientific Amrrican, New York.

38,207.-Harpoon.-Mayhew Adams, Chilmark, Mass.



38,208.-Kerosene Lamp.-Samuel Adlam, Jr., and Jeremian R. Fogg, Portignd, Maine:
We claim the band, D, in combination with the pivoted cone-plate,
Yorth. $38,209 .-$ Parmp.- Abraham Arnold, Heidelberg, Pa. :


38,210. - Screen for Heaters.-William C. Baker, New
 38,211.-Steam Radiator.-William C. Baker, New York City:
condensed sleam from the coil to the thoiler boller to the coil, and the

38,212.-Low-water Detector--William C. Baker, New York City. Antedated March 25, 1863 :
 arrmnged io operate substantially as and for the purposes set forth.
38,213. -Pistol Holster.-Augustus A. Bennett, of Cincinnati, Ohio:
 38,214, - Portable F
38,214.-Portable Fence.-John W. Blodgett, Three Rivers, Mich. :
elatim the com
h claimm the combination and arrangement of the lapping rails, purpose degoribed
hefocont The arra
hluge and
Socond, The arrangement of the hpplng rails of the panels, pivot
hloge and shear braces, in the man ner and for the purpose described. 38,215.-Governor.-William F. Burden, Troy, N. Y.


 38,216.-Propeller Blade.-Charles H. Burton, Cleveland Ohio:

 38,217.-Manufacture of Drums, Kegs, Casks, \&c.-David

Cope, Liverpool, England. Yatented in England Oct.
claim the
Indin

38,218.-Device for carrying off Water from Musical In-struments.-George F. Dallon, Flatbush, N. Y

 which $\mathbf{w i l l}$, produce the int int inded effect.
38,219.- Rake for Harvesters:-Cyrus C. Dennis, Auburn, I Nela . Y. frest, The use of an irregular gear on the surfaco of a sphere



38,220.-Manufacture of Paper, \&c., from the Husk
of Indian Corn.-Dr. Aloyse Chevalier Auer de Wels
bach, Vienna, Austria. Patented in Austria Nov. 23, 1861:

 or in any manner substantailly the same as described.
38,221.-Platform of Weighing Frames.-Charles Downer Philadelphia, Pa.:
 38,222.-Machine for Canceling Postage and other
Stamps.-Samuel W. Francis, New York City : Stamps.- Samper W. Francis, New York city:





 ${ }^{\text {tiallig as }}$ set forth. for canceling stampaby by culling with the of cind remoring from the the stamp
one or more portions thereof, of a spring so arranged as to bear the


38,223.-Coal-oil Burner.-Solomon Frederick, New York I claim, as an Improved article of manurfacture, the top, D, when
made it ihe peculiar form and manner herein shown and described, and applled to the tube, $C$, as set forth.
[This invention relates to an Improvement in coal. oil burners for
lanterns, whereby the flame is prevented from beling extugushed by the swinging of the lantern or its sudden movement, a contingency of frequent occurrence in the use of coal-oil as a burning material for lanterns. The Invention consists in the emplopment of a tube which is fitted over the wick-tube of the burner, and has a peculiar shaped to
bottom.
38,224.-Attachment of the Tow-lines of Canal-boats.-
 herel In dese ribed.
38,225.-Car Coupling.-James H. Hills, Burlington, Vt.
 38,226.-Water Wheel.-Jonas Holmes, Clayville, N. Y.:
 38,227.-Apron for Stoves and Grates.-William Hughes, Rochester, N. Y.

 38,228.-Mode of driving Propeller Screws.-R. C. Jack1 son, Cis Ohio
I clatim, first, Placing the crank-shan that connects with the engine,
nilye
sine

 38,229.--Track-clearer.-Job Johnson and Joseph Barbe B82iton, Brooklyn, N. Y.:
 that is inclit ind hackwards and up wrabs, nnd hiled with a spring, or er erles over and dilears the ends of ride ris ore other rigid parts with
ehlch It may come tn contact, 8 set forth.

 Frourth, We claim the rod, o, and socket, p. In comblnation with the 38,230

 pose set torth.
38,231-Device to prevent counterfeiting Bank-notes
$\underset{\text { \&c.-M, M. Carey Lea, Philadelphia, Pa. }}{\text { \& }}$
rating a color in in graduated shade. Second, Prining simultaneouely the signatures, numbering an

 38,232.-Harvester.-John M. Long, Hamilton, Ohio. I claim conated Dec. 4, 1862:
 specified.
38,233.-Crank-wrist.-John M. Long, Hamilton, Ohio:
 38,334.-Pump.-Arthur McCarter, Norristown, Pa.

scribed. The three-faced valve in comblnation with the five porte
Second. Second. The three.faced
substantially a d described.
38,235.-Gaiter.-George W. Ludlow, Elizabeth, N. J. : I claim the comblnation of the spring, B, with the bat of of sal
gatierete, substantially as and for the purposes set forth. 38,236-Window-sash Supporter.-John N. McLean, New Philadelphia, Ohio:
 manner and
38,237 .-Hot air Engine.--Henry Messer, Roxbury, Mass.
 38,238.-Steam Cooking Apparatus.-Francis Milliken Boston, Mass.:
 as set forth
38,239.-Culinary Steamer.-L. F. Noe, New York City I claim a cullnary steamer combinng the attachment or junction

38,240.-Holder for Hat Brushes.-J. M. Osgood, Chelsea

 38,241 .
8,241.-Portable Fence.-Joshua Reber, Shoemaker ville, Pa.:
 38,242. Clover-huller
Pa. Ante-dated -Christian Reif, Lewis township


38,243.-Flask for Founders.-A. L. Robinson, M. M. Donnelly and D. H. Krum, Cincinnati, Ohio. Antedated Nov. 7, 1861 :

 porred 1 lis rim resting upop the
ner and for he purpose sef forth.
38,244.-Corn Planter.-J. B. Ryder, Wapello, Iowa :




 38, 245.-Rubber Spring.- S. J. Seely, Brooklyn, N. Y.:

38,246. Sewing Machine.-Chas. A. Shaw \& J. R. Clark,
Bideford, Maine : Biddeford, Maine
We clasim, frat, The combination and arrangement of the wheels,
$\mathrm{m} m \mathrm{~m}^{\prime} \mathrm{m}^{\prime \prime}$, and their shafts, with the spring, $3^{\circ}$, and plates, 4, $5,5^{\prime}$,
 sebsia
ned
sic
sico
mi,



38,247.-Steam Radiator.-J. J. Smith, New York City

38,248.-Operating Rolls for Rolling Iron.-Wm. Stark, Pittsburgh, Pa.
I cialm the com minatlon of the counter.shaft, gearing Into the main


 38,249.-Lock for Fire-arms.-A. P. Stephens, Brooklyn, N. Y. : I Itiso claild the trifger, h, formed with the half and full enc
 hee
ned.
38,25
38,250.-Air-condensing Apparatus for forcing Liquids.
Herman Strater, Jr.. Roxbury Mas Herman Strater, JI.. Roxbury, Mass. :





 established and stopped simultan nousiy with the admilasion oi and mitsion from the reservolr of water, subetantially no herein se

 38,251.-Grain Separator.-Abner Sylvester, Dubuque, Iowa:
Iclaim the
substantially in the man aner and for the purpose see fortide portlon,

 montum which the rriddees iend to acequire by th
substantiall as and for the purpose set forth.
38;252.-Combined Plumb and Level.-F. A. Trout, New Britain, Conn
 38,253.-Bag Machine.-Joseph Wells,Hoboken, N. J.:
 Reoond In combination whth the said guide blockk, Iclaidm the ad
jutable Eage wheil, $K$, or its equivalent, as set forth, for the purpose

 sperifed The pecular comblnation of the said changlng plate and se.
curing rod with the said severing znife and feeding roliers, substan Lially as sel forth Sinth, The comation of the pasting plate, $\mathbf{O}$, or its equivalent pecified serenth. The combination of the said adiustable gage wheel with
she elliptical roller, R, as set forth, for the purpoese spectibed. 38,254.-Sugar Evaporator.-C. O. West, Eliel West and We claim, Crate, Martins two iron barri, Oh J,
and inclined planeen at their mid leng the and ends reaperativesy.y. fo


 ending trom the furnace crown immediately to front of the "teache' 38,255.-Railróad Car Springs.-J. E. Wootten, Philadel ${ }_{7}^{\mathrm{phia}, \mathrm{Pa} \text {. }}$
 I also clatm the spring ion structiga as hereln deseribed, In whtch Hed to the plates, A A, and serve the purpose of ormily holdang the
 intervention of lage bolls,
purpose herein set forth.
38,256.-Ash Box for Stoves.-C. J. Woolson, Cleveland Ohio:
 forth (assignor to B.G. Godfrey), Milford, Mass.

mits vertiual and angular movements bo the not or rubber for the






 38,259.- Paper Card for Hooks and 'Eves.-De Grasse Fowler, Jr. (assig
Northrord, Conn.
 Or arlipg paritilly geparated and
38,260 - Steam Plow. -A. W. Hall, St. Louis, Moo. as
so.-Steam Plow.-A. W. Hall, St. Louis, Mo. as
signor to himself and B. W. Robinon, South Reading
Mass.
I ciaim the employment of a tieam ongino or its equiralent motive

 subesuthals as herelin deecribe and repreenented
38,261.-Cultivator.-Chas., W. S. Heaton (assignor to Jabez J. Piggott \& Henry Reutchler), Belleville, Ill. scribed, in combination with short axles and vertical outside hangers
it as and for the purpose set forth
Second, The guard-brace, E, arranged and operating substantially








 38,262.-Spectacles.-John Jennings. Birmingham, gland, asgignor to S. \& J. Myers, Boston, Mass.
 ${ }^{9}, 263$.- Coal Oill Lamp. - Anson Jodson, Brooklyn, N. Y. asijpor to himself, Lemuel Beers, Ne wtown, Conn,


38,264.-Drag Saw.-William A. Purves, Madrid, N. $\begin{aligned} & \text { N. } \\ & \text { asignor to } \\ & \text { David } \\ & \text { W. Bald win, Watertown, } \\ & \text { N. } \\ & \text { Y.: }\end{aligned}$

 that ibe ilater mef bit ecaused to operate the former at pieasure, uub







 38,265.-Loom.- O. C. Smith, Salem, Mass., assignor to ,, . N . Clark, Boston, Mase




$38,266 .-$ Mounting and operating Ordnance.- John. Tag.
gart
Roxbur gart, Roxbury, Mas., assignor to himself \& Liverat
Hull, Charrestown, Mass::
 Betier Aubatiatithily at pecalifed
 38,267 Liquid Composition for bat
,267.-Liquid Compositionfor bating Skins and Hides.-
Rudolph Wager (assignor to himself \& Gustavus Rudolph Wager (assignor to himself \& Gustavus
Groezinger), I claimthe materials added to water, in the formation of the bate,
in the maner sustantatillv as set forth in the process of treating
skins or hides for the purpose specified.
38,268.-Water Elevator.-Samuel S. Williams (assignor to Henry J. Bailey), Pittsburgh, Pa.:


 circleas it is carried over the trough.ending in the line of an are of a
Alis, In combination with the yielding trip, the hooks or other
equivalent device to engage the trp, when plaoed back of the mouth
 hook and trip, substentiolly as desc ribed
38,269.-Self-balancing and Self-closing Fanceta.-Enoch
Osgood, Boston, Ma


 eairelent, in combination with the fregoging, an aduustable graduat
 38,270.-Filter.-J. A. Thompson, Geneva, N. Y. Ante-
 RE- ssubg .
1,455.-Packing Cartridges.-Christian Sharps, Philadel 1,45.-Phis, Pai. Patented July 10, 1860 :
 aning the deonate within the
1,456.-Setting Teeth in Saws and Saw Plates.-N. W
Spaulding, San Francisco (formerly of Sacramento)
Cal. Patented Sept. 10, 1861 :
I claim, first, Forming the recesses or sockets in saws or saw
Hateu, for detachable or removable teeth, on circular lines, subetan faliy as and for the purpose herein set forth.
Second, In combination with sockets or recesses formed in saw or saw-plates, as herelnreclted, Iclaim teeth having their base of
bottomparts formed on circular lines as described. 1,457.-Shingle Machine.-Oren Stoddard, Busti, N. Y
Patented Dec. 20, 1859: Patented Dec. 20, 1859:
I claim, first. The relative arrangement of the knife frame. E, and
connecuing rod, D, by which the pull of the latier is made io act
 parts arearranged in relation to each other assel forth.
Third, The combination of the Auted roller, $H$ H ${ }^{\prime}$ provided with ratchet wheels and operaled by pawis ating knfe, $F$, of $t$ he adjusta
ting knife,, , as set forth,
Fourth , The combination with the cutting Fourth, The combination with the cutting knife, F, of the adjusta
bee guides, $G \mathbf{G}$, by which the c th of the knffe can bevaried as berei 1,458.-Machine for making Horse-shoes.-Thomas $R$

Taplor, Brooklyn, N. Y. (formerly of Cleveland
Ohio.) Patented April 30, 1860

 substantially as herein set forth,
Second, Iclaim the reciprocaing male die, $\mathbf{O}$, and mandrel head.
N, conjointiy with the female dies, p p, contaned within mutually N, conjointiy with the female dies, $p$ p, conianned within mutually
ercprocaung jaws, $R$ R, arranged and operating as and for the pur

 Fourh, I claim the projectors, 1010 , on the mandrel head. N, an
ther eceases, 1111 , on the male die, 0 , for forming the heel caulk o
the shoe, in the manner specified.
 in the male die, for forming the we caulk as set frith.
sixth, $I$ claim operang the cutter, $U_{\text {, }}^{\text {by }}$ the movement of the
mandrel, $K$, iever, $V$, elidel, $U^{\prime}$, and rod, $v^{\prime}$, as and tor the purpose
specified.

1,459.-Guard Finger for. Harvesters.-Walter A. Wood Hoosick Falls, N. Y. Patented July 1,1856 s herein represented, viz: with the forked cap, $E$ receee or depres aion, $A$, raised edges, a a aind neik, $c$, behind them, by means of
which the cuttlng is facintated in the manner set forth. 1,460-Guard Finger for Harvesters.-Walter A. Wood,
Hoosick Falls, N. Y. Patented July 1, 1856: I cla im first, A finger or gard recessed or dropped-off 8 on as to be
asten ed to the under side of the finger-beam whict has a bevel or in.
 Onger bar, substantially as described.
second 1 also claim as a means of making the elevation of the
shear Second, I alao claim as a means of making the eleration of the
shear dedge above the base or heel of the finger or guard, and of af.
fording bearing for the finge obr and for the sickle or cunters, the
four planes, 1234 subsing four planes, 1,234 substantially as descrihed and represented.
DESIGNS.
747.-Medallion Pen.-Albert Granger, New York City Antedated April 15, 1863.
,748.-Goblet.-Frederick McKee, Pittsburgh, Pa

## Magazines and other Publications Received

The Atlantic Monthly. Published by Ticknor \& Fields Boston, Mass
Cultivated readers of periodical literature look as eagerly for th appearance of this magazine as for the dally paper, for both are, in
their way, a necessity. The leading article, "Charlas Lamb's Uncol their way, a necessity. The leading article, "Charios Lamb's Uncol
lected Writings," is a genial account of some of the hitherto unpub "Dised Elia" which will beapp Dark Ways," by Miss Presoott, is fall "f the lmpetuosity and elan ni "sarks be on, "Shall we Compromise," by D. A. Wasson, "Up the Thames," Dr. Holmes, "The Carboniferous Period," by Agassiz, besides poem of the usual excellence, comprise the principal articles for the May number. Dr. Holmes posches a little on our manor when he ex plores the workshops of the country, but he doas it in such a thor ough manner that we accept him as a valuable coadjutor. Gall Ham ilon's "Gala Days" is (we confess to our bad taste) abominably writ en. If a writer bas any particular phase of society, any question of ethics, esthetics or popular science which he or she wishes to venti To te, why not mount some easy-ambling, soff-pacing Pegasus, instea a bard, fierce, raw-bonedjockey of a steed that goes pounding and ammering aleng the literary highway, shocking every sensibulity and sentiment in the nervous reader. "Gala Days "is hard and angur, as full of facets, but not quite as brilliant, as a brilliant-cut dia Gail! when you have such sensible views of things in general, why will you thus roughly throw them at people ?
Sorgo ; or, The Northern Sugar Plant. By Isaac a
Hedges. Published by Applegate \& Co., Cincinnati Ohio.
This is a small volume containing a history of the introduction o he Chinese sugar cane, the imphee, dc., into our country, with in ing the arrangement of sugar-works and the manufecure of cul and sugar. It 18 a very opportune and practical illustrated treatise pon a most important subject to our Western people.
anneyte; or, The Lady of the Pearls. By Alexande
Mrs. Wm. R. A. Johnson, of Philadelphia.
This work is published and for sale by T. B. Peterson \& Brothers, To. 308 Chestnut etreet, Philadelphia, Pa.

IMPORTANT TO INVENTORS.
PATENTS FOR SETENTEEN YEARS.

 states and all foreign conntries, on the most reasonable terme. They slso attend to various other depart ments of business pertaining to pa
ents, such as Extensions, Appeal before the United States Court interferences, Opinions relative to InTingements, \&c. The long ex perience Messra. MJNX \& Co. have ad in preparing Speclication perfectly conversant with the mode of dolng business at the United States Patent Ofllce, and with the greaterpart of theln ventlon which have been patented. Informatlon concerning the patentabilit of inventions is freely given, without charge, on sending a model or rawing and description to this oflle.

## THE EXAMINATION OF INVRNTIONS.

Persons baving conceived an Idea which they think may be patent uble, are advised to make a skelch or model of ther invention, an elty arecarafull ezamined and a writen reply correapondingitb he facts, is promptly sent free of charge. Address MUNN \& $C O$ No. 37 Part Row, New York
preliminary examinations at the patent ofyct The service we render gratuitonsly upon examining an inventio oes not extend to a search at the Patent Owce, to see ifa ince inven lon has been presented there, butis an opinion based upon what保 our Home Owce. But for a fee of $8 \mathbf{3}$, accompanied with a model $o$ drawing and descriphon, welave a special search made at the United ining a, , 1 , mphle, made up and malled the thventor, wh hary examing instructions for further proceedings. These prelim nd Seventh streets, Weaingon ons Many thous, wish bie oflce. Address MUNN \& CO., No. 37 Park Row, New York.
how to make an application for a patent.
Every appllcant for a patent must furnish a model of his invention if susceptible of one; or, if the invention is a chemical production onsista, for the Patent Once. These should be securely pected the nventor's name marked on them and sent, with the Government fees, by express. The express charge should be pre-paid. Small model rom a distance can often be sent cheaper by mail. The safest wa o remit money is by draft on New York, payable to the order of MUNN \& CO. Persons who live in remote parts of the country ca sually purchase drafts from their merchants on their New York cor espondents; but, if not convenient to do so, there is but ittle risk ing master. Address MUNN \& CO., No. 57 Park Row, New York The revised Patent Laws, enacted by Congress on the 2d of harcb, 1861, are now in full force, and prove to be of great benefit to all par hes who are concerned in new inventions.
The duration of patents granted under the new act is prolonged to EEENTEEN years, and the Government feerequiredon fling an appl cation for a patent is reduced from S3U down to S15. Otherchange the fees are also made as follows -

##  <br> On ispung each original Pa On appeal toc Commisioner On application for Re.issue. <br>  <br> 

The law abolishes discrimination in fees required of foreigners, e cepting natives of such countries as discriminate against citizens o The United States-thus allowing Austrian, French, Belgian, English nuslan, Apanish and all other Arelgners oxcepl Canada jonall igns) on the above terma Foreigners canno secure their in ven Durig the last serent Durlig the lasl se the Yuited $s$ the buind or procring Patent been conducted by Megrs. MUNN \& CO in connectiot with th publicatlon ofthe SCIENTIFIC AMERICAN; and as an eridence of be conflence reposed in our Agency by the inventors throughour he country, we would tate that wo bave acted as agents for at ina TWENTY THOUSAND inventors! In fact, the publighers of thl paper bave become identifed with the whole brotherhond of inven ors and patentees at home and abroad. Thousands of inventors for whom we have taten out patents have addressed to us most flatter ag testimonials for the services we have rendered them, and the Calth which has inured to the inventors whose patents were 86 TIFIC AMERICAN, would amount to many millions of dollars! WF would atate that we never had a more efficient corps of Draughts men and Specification Writers than are employed at present in on axtenive oflces, and we are prepared to attend to patent bualnese of all kinds in the quickest time and on the most liberal terms.
oatrats.
Persons desiring to flea caveat can have the papers prepared in the bortest time by sending a aketoh and description of the invention he Government fee for a caveat, under the new law, io \$10. A pam ance regarding applicatlons for pate ion by mail Addreas MUNN \& CO., No. 87 Park Row, Now York

## A8SIGNMENTS OF PATENTS.

Assignments of patents, and agreements between patentees and
nanufacturers are carefully prepared and pleced aj on the records a
the Patent Omfe. Address MUNN \& CO., at the Sclentlfc American Patent Agency, No. 37 Part Row New York.
It would require many columns to detail all the ways in which inventors or patentegs may be served at our offices. We cordially in ite all who haveanything to do with Patent property or invention ocall at our extensive omces, No. 37 Part Row, New York, where an swer ed
Communications and remiltances by mall, and models by express (prepald), sbould be addressed to MUNN \& CO., No. 37 Park Row New York.

## RERECTED APPLICATIONS

We are prepared to undertake the investigation and prosecution of rejected cases on reasonable terms. The close proximity of our WashingtonAgency to the Patent Omice affords us rare opportunitle for the examination and comparison of references, models, drawings
 been very greal. The principal
dependent upon the final result.
All persons baving rejected cases which they desire to have pros all story of the case, inclosing the oflicial letters, at

## oreign patents.

We are very extensively engaged in the preparation and securing of patents in the various European countries. For the transaction of this business we have ofllees al Nos. 66 Chancery lane, London 29 Boulevard St. Martin, Pars ; and 26 Rue des Eperonniers, Brus cela. We think we can safely say that threg-fourtis of all the European Patents secured to Americanclitzens are procured througb the Sclentuc American Patent agency, No. 37 Part Row, New York Inventors will do well to bear in mind that the English law does no Imil the issue of patents to inventors. \#ny one can take out a pal ont there
Circulars of information concerning the proper course to be pur nued In obtaining patenta in forelgncountries through our Agency The requirements of different Government Patent Omces, \&c., ma e bad gralls upon applicalion al our principal offce, No. 37 Par Row, New York, or any of our branch oflices.

## 

T. R. V., of Conn.-The use of bismuth in an alloy is to make it mell at a very low temperature
Old Subscriber."-You are right in one of your sur migesaboutlightningrods. Paint is a non-conductor, but does no detract from the value of the rod as a proteotlon. All non-con sage to the earth to the rod itself. The lightentig will not rod and enter the building. The red is painted to preserveit from ordizing Rust is anding therefore undestrible If the couductor is of sulicient size and a direct as possible in lis passage your building is safe enough. Tbe nt will not injure it
F. R., of Mass.-Your letter must have been missent, as we bave not received it. We are obliged to you for your gratultous advice as to the best manner of conducing our business. Guttaor naphtha. We cannot inform you bow plpe stems are made from
J. F., of N. Y.-You had better call at ourofficeand show us $\overline{\text { E }}$ sample of your proposed method of using rubber for protecting walls of rooms. We canuot understand its pecullarity from lithe bemen you bave made respecting il
B. W. K., of Wis.-The hollow wrought-iron cylinders, 6 feet long, 36 inches bore, with sldes 8 inches thick, can be made a our lron works. They can also be hled wib lireads internally of any desired pltch, but unless gou bave a gold mine in your own right, you had better defer the construction or one al present, as would involve the production of special maehinery to makesuch a cylinder, at a vast outlay. We are obliged for your compliment
respecting the Scientific American.
W. S. D., of Pa.-There is no sense in your question a you state it. "If the platonof a steam engine of 60 horse-power traveling at the rate of 3 feet per second, with a weight of two tuns thached to the piston, what would be the welght of the blow it would strike ${ }^{7 \prime}$ As you left out all the essential points-the distance passed over before the blow is struck, whether vertical or hortzon tal and the pressure of steam-" 60 borse-power" conveys no mean ing whatever.
W. P., of Maine.-Address Reynolds, Pratt \& Devoe, 106 Fulton street, New York, for the klud of varnish you require for tool bandles
J. D., Jr., of Del.-Blanchard's ecoentric lathe for turning irregular forms ls capable of turning an ox-yoke from a pattern, bu A. M.. of Ohio.-The packages of earth which you have sent us appears to be mostly sillicions sand mixed with a litlle lime mithoutanalyzing it.
J. G. P.; of Pa.-You state that the spindle of your 3 -foot saw becomes beated, and that you bave not been able to remed Iltule out of line, but as you run it at the rate of 850 revolutions per minute, this great speed may be the cause. A high circumferen thal velocity in a saw generates a great amount of friction in the Journal boxes.
N. C. D., of D . C.-We are obliged for your continued attention to us: We recelve many suggestions every week from disintarested persons which we are unable to give altention to.
spinning of tops, for all phenomena connected with the matter
The subject is quite ancient, as the bouk referred to is itself at leas a century and s balf old. In Dr Thompson's "History of Science you will doublless and a condensation of the subject.
J. M. Jr., of Ill.-We think there is no air in the feed water of marine engines which use surface condensers. You state that no locomotive bas ever exploded whlle running. This is nut s -several bave exploded. In February, 1849, the boiler of a lucomo with exploded on the Boston and Providence Railiroud, while running curred on the New Yort Central Railroad under similar circum - stances.

## Money Received

at the Scientific American Office, on account of Paten Offce business, from Wednesday, $\Delta$ pril 22, to Wednesday, April29 1863 :-
W. L. F., of N.J., $\mathbf{8 3 1 ;}$ T. J. P., of III., 850 ; W. J. 8., of N.J., $\$ 45$ J. C., of Mich., $\mathbf{8 2 0}$; J. P., of N. Y., $\mathbf{\$ 1 6}$; B. W. S., of Mass, $\$ 20$ P. M. R., of Cal., 812; J. W. G., of Mass, \$22; R. P. P., of N. Y. McD. \&R., of N. Y., \$16; J. D., of III., s10; L. \& H., of Pa., $\$ 25$ D. C. W., of Ill., $\$ 26$; J. H., of Iowa, $\$ 25$; S. R. J., of Conn., $\$ 15$ W. J., of N. H., \$15; G. T. L., of Pa., \$20; N. S., of Mich., \$20; N © D., of N. Y., 816; W.C. O., of N. Y., 820 ; T. S. D., of N. J., $\$ 15$ H. \& B., of Conn., \$20; E. D., of Mich., \$45; C.F. H., of N. Y., $\mathbf{8 1 0}$ B. V., of N. Y., $\mathbf{8 2 0}$; J. C., of U.S. A., $816 ;$ J. M., of Mass., 825 J. P., of Minn., $\$ 30$; C. H. M., of N. Y., $\$ 450$; J. D., of N. J., $\$ 33$
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