boy can turn out from fifty to one hundred gross a day. Surely, the old cork-cutter of the past is ambitious of bsing a fossil-he longs to be one atom in the strata which we are constantly burying and leaving, in our upward march of earth! But, if "Young America" is bright in invention, and can dash out a cork, has not this great country (head of the machine-making world) a new branch of trade brought to it , in the shape of the new cork-cutting machine? .By no means. There is con sorvatism also in the trade of engine-making. The pat entee of the machine finds that he can carry the iron from England to America, have the machines made in Amer-ica-and they do not accept low wages there-and bring it back to England cheaper than he can have it made in England. Now why is this? The reason is as plain as the cork from your bottle of champagne. In the making of the machine, a machine is used, in that prior machine there is a certain shaft, which shaft, in England, is formed turner-wise, by hand, in America it is done by machinery. There they make the machines to make the machines that make the machines of the cork-cutter."

Explosion in a Coal Mine.-An explosion of gas in a coal mine occurred in the early part of March at Burraden, Northumberland, by which 73 men and boys came to a ghastly and untimely end. About 120 men were employed in the mine, which was of immense extent, one passage in it being more than a mile in length. The gradual accumulation of the gas had been perceived for more than six weeks, and several of the men had left the mine from fear of an accident. A slight prelimi nary explosion gave warning to a portion of the hands, a few of whom escaped in consequence. The principal explosion was of tremendous force, destroying the ma chinery and wagons, and instantly killing the larger portion of the persons employed.

REMARKABLE DISCOVERY AT ROME.
The Detroit Advertiser (of March 24th) publishes a private letter, written by Lewis Cass, Jr., to Rev. Mr. Duffield, of Detroic. From this letter we make the fol lowing extracts:-
"In the progress of the excavations on the Palatin where stood the house-of-gold of the Casars, a fragment of an arch, covered with inscription and delineations, was brought to view. Further explorations in the same direction resulted in the exposure of a room, on the walls of which was found a sketch, cut or engraved with a sharp-pointed instrument, of a crucifix, together with the figure of a man in the attitude of prayer, standing near it. The announcement of this discovery created great interest. By order of the Pope, the design was removed from its position, happily without injury, and confided to the care of Monsignore Macchi, who invited me to inspect it, and by whose permission I procured a copy to be made, which is herewith enclosed. It is noedless to say that this event has elicited elaborate speculations. Notwithstanding a general discrepancy, the contlicting views concur, with scarcely an exception, in the conclusion that the aim of the sketch was to cast ridicule on the worship of the Christians. It presents the outlines of a cross, on which is a human figure bearing the head of an ass. A tunic envelops the waist, and the arms and legs are partially covered with bandages. To the left, with one hand raised in the posture of adoration, as depisted on an:ient monuments, appears the form of a man, while below is seen the following inscription, 'Alexander adores God.' The execution of the engrav ing, as you will perceive from the fac simile, of which the scale is one-fourth smaller than the original, indicates an entire ignorance of art, being stiff and hard, without ease or grace whatever. Satisfactory evidence refers the date of it to the reign of Septimus Severus. There were numerous Christians in his court, one of whom, it is supposed, of the name of Alexander, was thus exposed to ridicule by his paganassociate or companion.
"Familiar as you are with the early history of our religion, it is unnecessary to recall to your recollection the existence of the legend, current throughout the Roman dominion in the days of the empire, that the Christians worshiped a divinity whose head differed in no respect from that of an ass. In Africa, then filled with rich and splendid cities, this was the popular belief. It was inculcated in the Magian school of Asia, from the sands of Parthis to the Pisidian foresta, and levelled at the corr-
verts to the strange faith in the streets of Narheordea, Amida and Mardin-on-the-Hill. The later Gnostics in particular, more especially the sects of Bardesanes, omitted no occasion to disseminate this calumny, accom panied with every epithet of contempt and detestation. At Orla it was proclaimed from the throne in the sounds of trumpets, followed by a decree prohibiting the use of arms and the Arabic language to the worshipers of the God of Nazareth, and requiring them thenceforth to wear girdles of leather in token of their obnoxiouscreed. We meet with it in the writings of Tacitus, a bitter and relentless enemy to the Christians, whom he styles outcasts of the human race. It is also alluded to in the pages of the contemporary fathers, by whom it was repelled with vehement and irrepressible indignation. The origin of this monstrous invention is lost to us. There can be little doubt, however, that it had its foundation in the hatred with which the disciples of the pure and spiritual doctrine were invariably regarded by the idolatrous ations among whom they lived. But whatever che source, the first mention of this calumny occurs in the ecords relating to the period interrening between the years 120 and 250 of our era, subsequent to which epoch all trace of it disappears. Precisely during the same period the room in which the design was found was constructed. The palace of the Casars on the Palatin, as you are aware, was the growth of successive reigns. That part of it which embraces the chamber in question was built by Hadrian, as the bricks of which it is chiefly composed attest. They are impressed with the names and titles of the Consuls Pactinus and Apronicanus. This coincidence-the prevalence of the legend in the years already mentioned, and during that period only, and the erection within the same time of the wall on which the drawing is traced-establishes satisfactorily the purpose of the sketch, as well as the date of its execution. Still more conolusive, perhaps, is the manner in which the figure upon the cross is presented to view. It is delineated with drapery, while it was the invariable practice in executions of this nature-a mode of punish ment very eommon among the Romans-to expose the victim or criminal in a state of nakedness. Tho discrepancy finds itss sole warrant in the tradition that our Lord was put to death with a garment about his loins, and its admission in a work emanating from the hands of a pagan whom we cannot suppose to have been influ enced by any sentiments of awe or respect, and whose experience would never have suggested such a departure from the unform custom, indicates clearly a caricature, of which the first requisite is uniformity to its prototype Finally, the words, 'Alexander adores God,' admit of no other interpretation; nothing in history, legendary or monumental, tending to the idea that the symbol of a crucified being was ever regarded as an ubject of venera tion by any other sect than tho followers of Christianity."

Literary Monomania and Dishonesty. -The foreign papers report that recently, at Leipsic, a case of singular monomania led to a most deplorable result. Dr. Lindner, a professor of theology at the University of that town, was tried for the purloining of manuscripts rom the Academical Library, and sentenced to six years penal imprisonment. The unfortunate man had allowed himself to become the slave of a paramount passion for old parchment. To know a fine, rotten, and worm-eaten codex to be within his reach, yet not in his possession, was too much for the moral strength of this savant, otherwise of irreproachable character. Beginning with the abstraction of one or two remarkably fine pages from some manuscript or other, he gradually proceeded to en tire volumes, and, during a space or four years, despoiled the library of a great number of priceless rarities. This, though it might have eventually brought about his expulsion from the University, would have scarcely subjected the bibliomaniac to the penalties of the criminal law. But, with a looseness of principle which the jury found it impossible to overlook, Dr. Lindner occasionally bargained away his ill-gotten treasures for others, receiving the difference in money whenever there was a disparity in the value of the manuscripts exchanged. But for the great liberty granted to German professors in the use of public libraries, his criminal procoedings must have been discovered long ago, as his dis honesty was certainly not greater than his folly and want of the most ordinary caution.


ISBUED FROM THE UNITED STATES PATENT TFFIC: for taz weer ending afria 3,1860
[Reported Offcially for the Scientifio Amirions.]

- Pamphlets giving full particulare of the mode of anplying for


27,675.-John R. Albertson, of Fast Deer township, Pa., for an Improvement in Garden Hoes:
 for the purpose set forth.
7,676. - Edward H. Anderson, of Easton, Md., for an Improvement in Vapor Burners:
cla in the orikinal arrangement of the apparatus set forth, and the newand usefula adaptation of them to the purpose of producing a
lieht which will be economical in coet, and which will be entirely lieht which will be economical in cost, and which will be entirely
exempt from the danger attending many other a asilanps.
Ialso claim the invention of a new and user ul mode of procuring
 The conducting pipe, A, acting ypon the under surface of the cham-
ber, D: the blow-pipe principle of the jeter produclog the erequalto
heat to manufacture the kas as required for the sapport of the flame, nnd which combination enables mee to aine the flaine above the en:
tire apparatus, thua rendering tit clear of all obatructiona all contire apparatua, thus rendering it
structed and operating as set forth.
27,677.-Edward Armstrong, of Pittsburgh, Pa., for an Improvement in Gorcrior Valves of Steam Engines:
I claim dividing the valve-chamber of governor valves into tivo vampartmenta, by means of the division plate, $c_{\text {, }}$, provided wit ribed and for the purpose eet forth
27,678.-A. Merritt Asay and J. Lambert Asay, of Philadelphia, Pa., for an Improvement in the Method of Fastening Artificial Teeth:
Weclaim firstening artificial tecth to a metallic plate bs interpon ink betveen the saidenizing or hardening the same; the teath baving been gum an oo the plate, as set forth.
od plate or bet ween the teeth the the interstices bentween the teeth yriveting or any other of the usual wodes, and vulcanizing orbard27:679 -Geo. K. Babcock, of Utica, N. Y., for an Improvement in Measuring Faucets: I claim connecting to the sllde or valve of a fauceth a scale beam or way so that the aubstance to be drawn may be measured Dy lto If further claina the conbination of the acale bean, $I$, phwl or catch,
$H$, arm,, lever, $D$, and valve rod, C , with ita valve, $B$, fited with in the tube, $\mathbf{A}$ : All arranged for jolnt operation substantially us and for the purpose set forth.
27,680.-John Bailey and John Decamp, of Cincinnati Ohio, for an Improved Spring Bed Bottom:

27,681.-W. M. Baker, of Walpole, Ind., for an Im proved Refrigerator:
I claim the arrangement. of a sheet, B, of canv s or other fibrove
material, in combination with the grooved and perforated or slotted matea, b, of the case, A, and with the reservoir, C, or its equivale nt,
conatructed and operat ing substantlally in the manner and for the nonstructed and
purpose specifed.
[This refrigerator belonge to that clase In which the evaporation o water or other fluid is emploged for the purpose of cooling article water or other fluid is employed for the purpose of cooling article cept wince of canvas or other fibrous fabric over the cormugated or slotted inclined sides of the case that incloses the articles to be kept cool, in combination with a perforated reservoir on the top, and with a recep tacle on the bottom, in such a manner that water or other fluid poured into the reeervoiron the top is spread ty the canvas or other fibroue fabric over an extended surface, where it is rapidly evaporated by the influence of the air that is alloried on both sides of the same, and hat by such rapid evaporation, a pretty low temperature to effected and maintained in the interior of the casc.]
27,682.-L. B. Batcheller, of Rochester, N. Y., for an Improvement in Machines for Manufacturing Bar rel Heads:
 together with the cord, J, for actuating the shw table, U, ammultape
ouelt with the clamping of the stavea, and the pawl and lever, P , op
erating conjointly, sibetantially as and for the purpoges set forth. I further claim the application of the luge or hooke, $k$ k, to the rlamping diek, Co, for the purpose of sustaining the staves whe
Hupplied to the diskg, subetantially in the nanner set forth.
27,683.-H. N. Bill and J. C. Bill, of Willimantic,

> Conn., for an Improvement in Scales:

We claims first, The combination of the weighted lever, $\mathbf{D} D^{0}$, dewinging armo, $J$, arranged and conibined subetantlally as described Second, We cilim the intted index hand, $J_{\text {L }}$ huug on an ieolated
center from the fulcrum of the weigbted lever, $\mathbf{D}$, in the manner and for the purposes set forth.
[This invention consistsin the emplogment of a gravitating lever in lieu of a spring or movable weights that are at present in ues, and in hanging this lever in a novel manner so as to be effected by the exact weight of any article placed on the scale beam. It also consists in a novel manner of hanging the registering index hand, so as to compensate for the diminished arc the short arm of the gravitating lever makes as the lever approaches a horizontal line.]
27,684.-Richard F. Bond, of Cambridge, Mase., for an Improved Construction of Clock Weights Ircuand its circumperence fock weight described, baving a sroore
for the purpoee opecifod,

27,685.-Francis B. Bowman, of Waltham, Mass., for an Improvement in Scissors. To claim makingig the clapp spring, with the separate pivota applied
to and to enter thejoirt holes of the separate blades, as apecified

27,686.-Edward Brown, of Waterbury, Conn., for an
Improved Curtain Fixture:
I claim the disk wheel, D, attached to the journal, a, of the shade
roller, $\mathbf{A}$, in connection with the claml, conatructerl substantially aa

[This invention relates to an improvent the shades, whereby the shade may be adjueted with greater facility and more expediency than byany of the meana hitherto used for the purpose. The inventionconaists in having a cord wound around the shat of the shade roller, and having a circular diak attached to the roller shaft; the disk being ueed in connection with a clamp, which bactuated or adjus by her admit hithe Thi bits in ousignd to the Woterbury Hook and Ese Company.]
27,687.-John Brown, of New York City, and Charle R. Ellis, of Brooklyn, N. Y., for an Improved
Means of Regulating the Draft to the Fire in Warming Apparatuses
We claim regulating the amount of air dratt admitted to the fir
in hot water abd other warming apparaturet, by causing the over
flow of water induced by ebulition to pase into a suitable vessel and

above the fre or or
vice as spectied.


27, 688. William G. Brown and Frederick McKce, of Birmingham, Pa., for an Improvement in the Manufacture of Iron:
We claim, first, Carrying the steam to the pipe, G, in which it is to
be fenperhated hrough pipe, $L$, smaller in bore than the bore of the



27,689.-Jesse Burroughs, of Ridgway, Pa., for an Im provement in the Purification of Coal and Ores:
 lime, in the proportions substantially as et forth
27, 690.-Tyrannus P. Butterfield, of Indianapolis, Ind. for an Improved Device for Tilting the Bolt in Shingle Machines

27,691.-Pietro Cinquini, of West Meriden, Conn., for an Improvement in Files:
verse cut, combining with said grooves to form teeth, substantially verse cut, cor
as described.
27,692. - Elizur E. Clark, of New Haven, Conn, for an Improv


Sccond. The coress slown in Figs. 4 to 21 , inclusive made ns de
scribed either wholc or in separate parts ; said corce beiug provided





 $Q^{\prime} Q^{\prime \prime}$ 'whe the frames which support the sheeting boarde, for the
purpose of forming string courses, water tuhles, and other continuous


 nection through the wall, as stated.
27,693.-P. J. Clark (assignor to S. S. Clark), of West Meriden, Conn., for an Improvement in Cigar and Match Cases:


27,694.-P. S. Clinger, of Conestoga Center, Pa., for an Improvement in Hand Cultivators

27,695.-Ezra Coleman, of New York City, for an Improvement in Attaching the Grinding Surfaces of
Quartz Mills: Quartz Mills:
Int cimbination with the hollow shell, A, provided at its end with
 the whole arran sed, co
27,696. - John Cook, of Buffalo, N. Y., for an Improvement in Lathes
 just ing the turning toon with the gtick and parwitting the tool to b
oprated by the pattern, as deecribed.
27, 697.-J. C. Cooke, of Middletown, Conn., for an Im provement in Welding Wrought Iron:
In cluim the portable weidiac apparatut constructed nnd operating


27,698.-John P. Cooper, of Finleyville, Pa., for an Improvement in Machines for Overcoming the Dead Improvement in Mach
Points of the Crank:
 and Hido n , ha described and for the purpose set fortl
Se ocond, The commination and a rrangement of the w
nd
Second, The combination and arrangement of the wh
and dild, 1 , as described and for the purpose ese forth
27,699. -William Cooper, of Mount Gilead, Ohin, , ora Improvement in Dirt-loading Apparatuses for Excavators:
Telaim the combination of the square shaf, a, with the bliding pul
Red together substantially in the manner and for the purpoee epeci
27,700.-John H.Crane, of Charlestown, Mass., for an Improved Spring Bed:
I claim the combination and arranecment, substantially as speci-
27,701.-Daniel Deshon, 2d, of Somerset, Pa., for an Improved Churn:

 arranged congtructed
the purpose eet forth
27,702.-J. V. Dinsmore, of Auburn, Maine, for an Improvement in Metallic Heels for Boots and Shoes:
I claim securing heels to boots nnd shoes solidly, in all weather and
 plate, Be or its equivalent, substantially
purposes fully met forth and deescribed.
27,703.-W. B. Dorsay, of Decatur, Ill., for an Improvement in Cultivators:
I clpim so combinin che hingeed benme C D, of a cultivator with
the treadea, H I , as that the driver on his sent may raise either or the two central cultivator hoos, F, senarately 1
taneously, when constructed and arranged sibotantially in the man-
ner and for the purpores dearibed
And also cinim, in combination with the pairs of hoes so hung and

27,704.-Frank Douglas, of Norwich, Conn., for an
Improvement in Steam Engines:
I claim the plate, E, in combination with the valve, $G$, the epring,
and the bar, $\mathbf{A}$; the whole constructed to operate substantially
[An engraving and description of this invention will shortly appearin our columne.]
27,705.-Nathaniel Drake, of Newton, N. J., for an
Improvement in Corn-shellers:
I claim the almngement and combination of the oblique-actingad-
ju stable epring, E , ent screw, , plate
$j$, as and for the and adjurposes shown and descrlbed
[This invention relates to an improvement in the old and wellknown clars of corn-shellers in which the corn is shelled by means of toothed wheels and a preseure plate or bar, the latterpart of the deby the wheels. The objectof the above invention is to render this pressure plate or bar capable of yielding or giving to the eare, in such a manner that it will keep both large and small ears properly pre sented to the wheels, so that both will be perfectly shelled, and at th same time be allowed to yield to large ears without offering such great resistance as in the machines hitherto constructed.]

## 27,706.-Asahel K. Eaton, of Kings county, N. Y., for

on Improvement in Vulcanizing Caoutchouc:
I claim the new met hod of applying heat to india-rubber or allied
guma, when the same are ready for being vulcanized, by the employ-
27,707.-A. K. Eaton, of New York City, for an Im-
provement in the Manufacture of Stecl:
I claim the conversion of cast iron in its solid form into steel, and
the simultaneouls purification of the same by treatment with the hy drates or carllonates of so
substantially as described.
27,708.-Daniel D. Farnhain, of Johnstown Center Wis., for an Improvement in Well Buckets:
tached to the ends of the buckets below and in front of the pucceed Inched the end of the buckets below and in front of the qucceed-
ing chain, in combination with the holding pins, $h$, and hooked arm, as described and represented.
This invention consists in giving to the well buckets a peculia they will more readily enter the water, and emerge therefrom; and italso consists in arranging on the end of each bucket a suitable pivoted hook which will attach itself to the cross bar of the bail as the buckets deecend and turn the bucket while in the water, and keep it in the desired position for holding water while it is being elevated and thus prevent it from casually upsetting beforcit reaches the dis chargespout in the curb.]
27,709.-Moses French, of Leesville, Ind., for an Im-
proved Millstone Bush:
I chim the emplosment, in com bination with the box, A, and spintaly,
[The object of this invention is to obtain a bush for millstoues sate automaticalle for the wear of the wedges and at the same time aflord facility for the reads lubrication of the spindle. The inven tion consists in the emplosment of wedges arranged in a peculia ray with springs, whereby a perfect bearing on the spindle is obtained, wear being compensated for, and using in connection with the above parta oil chambers provided with plungers, and arranged in f lubrication.]
27,710.-Robert George, of Mineral Point, Wis., for an Improvement in Metallurgic Operations Applicabl to cert
Nickel
I claim the peculiar combination and arrangement of the several
 ores, sulp,hates and sulphurcts of irou, nickel, cobalt, copper audlead 27,711-Hary Guild of Orleans, far a

Improvement in Siphons attached to Gas Retorts: I claim the ninnular siphon composed of $n$ n upright cup, A, with a
flaring or funnel-like mouth and contral tube, $n$, and a movable inverted cup, $D$, provided with projectiong $c$ c, by which it is enabled
to be supported by the flaring or funnel-ike mouth of the cup, $\Lambda$, escribed.
[This invention consiets in a siphon of annular form, constructed very conveniently for cleaning or for any wither purpose.]

27,712.-Albert Gummer, of Indianapolis, Ind., for an Improvement in Automatic Grain Scales I claim the arrangement of the double box beam, with its vertical
 27,713.-James F. Gyles, of Gilmer Township, IIl., for an Improvement in Sceding Machines:
I claim, first, The ettud and angular slot or bayonet catch, b, Fig. 1 ,
hen combined with the revolving armas of a rotary seed sowen, in the manner Bet forth.
Second the combination of the transverse partition, h, Fig. 3, and
he inclined partition, $g$, Fig. 3 , in manner and forthe purpose speci-
27,714.-John C. Hall, of Fayette, Miss., for an Im prorement in Buckles:
I clain the combination of the ends of the belt, band or hoop, $f$ g,
with a frame, $\mathbf{A}$, and bar, $\mathbf{B}$, in the manner and for the purpose sub. stantially as Ahown and described.
[The object of this invention is to obtain a buckle or fastenin which may be attached, without atitching or aewing, to the ends of he band, belt or strap it is to connect, and aot only form a securean permanent fastening, but also one which will readily admit of the band, belt or strap being taken up or shortened as occasion mas require.]
27,715.-Joshua Hathaway, of Marietta, Ga., for an
Improvement in Devices for Converting Reciprocat inf into Rotary Motion:
I claim the arragement and combination of the reciprocating sidid pullegr, C C', and hinged bars,, , coastructed and operating substaa-
ially in the manner and for the purpose specified. [An engraving and full deacription of this invention will be found on another page.]
27,716. -Theodore Augustus Helwig, of Minersville, Pa ., for an Improvement in the Manufacture of Prussian Blue:
I claim the npplication of mine water, containing sulphates of iron
and free sulphuric acid, in the manufacture of Prusian blie, or any other native mincral water containing iron, and which will produce
27,717.-Joseph C. Henderson, of Albany, N. Y., for an Improvement in Cooking Stnves:
I claim, first, The ash tubs, t, combined with the opening or open-
ngs, 11 , into the oven, as specified, whereby I am enabled to convey ahes from the box, s, to the front hearth, f, in stoves having a de purposes set forth.
Second. In claim the air space formed between the plates, $n$ and $o$, 2. for the purposes nnd as set forth. Third, flaim admitting air to the from the space, 3 , by the Third, 1 claim admitting air to the fire from the space, 3 , by the
opening, between the lower end of the plate, $p$, and the grate, $r$, ae opening, 4, between the lower $_{\text {and for the purposes specified. }}$
7,718.-Samuel B. Hopkins and Edward H. Anderson, of Easton, Md., for an Improvement in Vapor Bur ners:
We claim the original arrangement and combinatinn of parta, at
above set forth, viz, the attachment of the burner, B, the circular convex plate $C$, and the circular, D, all ai set forth, forming a dia-
inct apparatus, capable of being attached to the ordinary silde $A$, single tube fluid lamp, by which a light equal to that given by four
ordinary tube combined is obtained, with one-third the amount of
oil, all opersting and constructed as set forth.
27,719.-John E. Kelly, of New York City, for an Improvement in Riding Saddles:
I claim the application of a brake to a saddle, so conotructed and
arranged as to operate substantially as set forth and for the purposea nd uses вpecified.
27, 720.-Adam Humberger, of Somerset, Ohio, for an Improvement in Corn Harvesters:
I claim, first, The sectional platform, $P$, arranged upon the frame,
and pivoted as deacribed, in combination with the rear-end gate, for operation in the manner and for the purpose apecified.
Second. The arrangement of the sring buard s, $D$ and $H$, and
naife, and applied and operating together in the manaer and for the purpose
apecifed. apecifid.
27,721.-Charles B. Hoard, of Watertown, N. Y., for
Improved Means of Winding the Spring of Clocks by Currents of Air:
I claim winding the apring of a clock, or other time-piece, by con-
nocting it with an air wheel or mor mor so conetructed and arranged
27,722. - Christian Kramer, of Alleghany, Pa., for an Improred Sausage-stuffer:
opper, $b$, wheple, m, and vertical screw, 1, arranged, constructed and ope:ated as described and for the purpose eet forth.
27, 723.-James Letort and H. S. Matthews, of Wythe ville, Va., for an Improvement in Breech-loading Fire-arms:

 reech cribed, orin any equivalent manner, whereby the several offices or
function are performed, ns set frith, at one and the same time 27,724.-Peter Low, of Cincinnati, Ohio, for an Improvement in Furnaces:
I claim, first, Id combination with the air-heating chamber, $Q$, the

 hromber, flor of the apartments to be rentilicter. being made to pass
from the the inner space, $Q$, of the furnace above the gas chamber, $I$, nd anng side and in close proximity to the smoke pipe, and thence
nto the chimney, for the purpose of carrying of the vitiated air from
27,725.-Geo. W. Lane, of Boston, Mass., for an Im
proved Apparatus for Testing Hollow Floats for Steam Boilers:

## I claim the Baid float-testing apparatus, to operate in manner and constructed subtantially as described, and either with or without cittier or both the steam and water pipes, $G$ and $I$, furnished with

 cither or both the stcam andstopcocks, M N, as specified
27,726.-Thomas Lewis, of Malden, Mass., for an Im
proved Sugar-holder and Distributor
I claim the combinution of a receptacle, a, with a apring,,$k_{\text {a }}$ and
pocket,, when thelatter is airanged substantially as and for the
pur ose specified.
27,727.-C. B. Mallory, of Fredonia, N. Y., for an Improvement in Straw-cutters:
are operated from the eame crank Ia the folionwing manner, to wit,
the latter being operated directly from the crank, $b$, and the former

##   

 iising and falize adjusting movementoffering with the diviog mechanism thereof.
The object $\alpha$ this invention is to obtain a positive automatic feed thachment, so arrauged as to insure an even or regular feed of the whole mass to be cut within the feed-box, the feeding device being capable of adjusting itself to the varying thickness of the layer within he feed-box

27, 728.-Samuel W. Marsh, of Washington, D. C., for an Improved Compound Lock and Label Sheath: I claim the construction of a compound lock and safety label

27, 729.-William D. Mason, of Jarrett's Depot, Va., fo an Improvement in Machines for Sowing Fertilizer I claim the arrangement oft he screw, $S$, hopper. $H$, with ita offse


7,730.-Thomas J. Mayall, of Roxbury, Mass., for a
Improvement in Machines for making Rubber Belt ing:
I claim, first, The new mode described of forming a series of ma-
chine belts or band at one operation, the same consisting in rolling She indis-rubber or gutta-percha into two or mor e sheets, sufficently hat enmpose the inner body of the beltand and then nipping the sai he mechmical devices de beribed, so not the comple tely the belts b
 to unithe the gee of the belte, as described
Third The cutters, i, so arranged an
Third, The cutters, if i, so arranged and opera ted as to run at differ-
ent speds and produce a shear cut upon the ru bber or gutta-per cha ubetantially asdescribed.
27,731.-Edward Maynard, of Brooklyn, N. Y., for an Improvement in Carriage Springs:
I cisim the double-curved or wing-shaped spring, c. formed with axle by means of the curved chair clip or itn equivaleon, and by eye
stthe ends $t o$ the bolts, 11 , or body loope, unbsinptiall as and for
 snd Which is attached by bolt holes for the aprings, and the weight

27,732.-Oecar F. Morrill, of Boston, Mass., for a Improvement in Vapor Burners
Its elaim my improved arrangement of the tubular rotary cut-off and such cutoff being provided or not, as circumstances may require
with a device for movidg it both atareraly and longitudinally and
ach device being arrauged at lta lower parh substantially as de-

27,733.-John D. Murphy, of Baltimore, Md., for a Improvement in Wheels for Flying Artillery Car iages:
I claim, first, The combination of the solid hub, $C$, with the apoke Second, I claiin the cornbination and arrangement of the flange, $D$,
or ita equivalent, with the hab, C , subetantially as set forth. 27,734.-Thos. M. Mullen, of Philadelphia, Pa ., for an Improvement in the Framing of Railroad Cars:
I claim the longitudinal beam, C, composed of two stripa, a and ar Wraces, M and M. the whole being consitructed and arranged i
respect to the king bolt, substankially as and for the parpoae set forth
27,735.-Edmund Munson, of Utica, N. Y.; for an Improvement in Grinding Mills:
I claim, firat, The arrangemeote or the driver, M, relatively a
shown, with the apex of the epindle, $F$, to cause the apex of the gpindle and the bearing surfaces of the arms, $\begin{aligned} & \text { v, of the ariver of the } \\ & \text { in one and the omep plane, and thereby admit of a universal adjust. } \\ & \text { ing movement of the runner, C, to preserve the parallelism of the }\end{aligned}$ in one and the some plane, and thereby admit of a universal adjust
ing movement of the runner, C , to preserve the parallelism of the
two stones, as set forth. Second, The collar, I, attached to the spindle, F, perforated with
holes, 1 , in combination with the tube, k, , atteched to and placed cen holes,, , in combination with the tube, $\mathbf{k}$, attached to and placed cen-
trally within the box, J. the perforations or holes, 1 , being abo ve the
bearinge, $h$, and below thetop of the tube, $k$, to operate as and for e pucpose gpecified.
27,736.-Julius Pollock, of Morrisania, N. Y., for an
Improvement in Ventilators for Hats
ment of tubes or corrugations for hollow inflated cushion, the employ
mageneo nir, sind so placed in
27,737.-Ruel Rawson, of Quincy, Mich., for an Im provement in Car Couplings
Clasim, the arrow-headed bare, B, eprings, d , standard, S , and
capoing, A, ing
27,738. -Harvey Rice, of Concord, N. H., for an Improvement in Railroad Axle Boxes
I claim the combination of the inner packing applied to the axle at
 leet
27,739.-Cornelius J. Rooney and David Renshav, of New York City, for an Improved Pen Stand:
We claim the pen etand or pen rest, as described, made by arrang
ing the series of converging or conical and open. bottomed cupp, 5 , over the series of cups, 6 , 6 , one or both of these series of cups being
so attached as to be readily

27,740.-Alonzo R. Root, of Canton, Mo., for an Im provement in Seeding Machines
I claim, first, The construction and arrangement of the inner
cvl
indrical, distributing device, E , with the outer crlindrical case, $\mathbf{D}$
$\mathbf{G}$ fap vaive, $L$, axle, $A$, and cut-off, $I$, substantially as and for the pur Second, Combining the double spiral spring, $N$, valve, $L_{\text {, }}$ pivot, $~$
and


27,741.-James K. Ross, of Lebanon, Ohio, for an Improvement in Fire-places:



27,742.-Solomon N. Sanford, of Cleveland, Ohio, for
an Improvement in Apparatuses for Starting City Railroad Cars:
I claim, first, 'The use of the spring, $V$, when nttached to notch, $R$,
in order to release itself under hight tension, thus checking the running gear without breaking the aprine, gubbtantially as get forth.
Second, I claim the arrnngement of the drum, $D$, provided with



27,743.-Thomas Snowdon, of Pittsburgh, Pa., for an
Improved Feed-water Arran ement for Steam
Improved Feed-water Arrangement for Steam Boilers:
I claim locating a feed-water pipe withit the steam space of the
boiler, and having one end of said pipe communicate with the feed boiler, and having one end of raid pip communicate with the feed
pummor octor and the other end dip down into the water space, as
and for the purposes set forth. 27,744.-Jeremiah Stever, of Bristol, Conn., for an

Improvement in Portable Stamping Machines fo Crushing Stones, \&c.
I claim the combination, and arrangement of the carriageb, $S P Q$

27,745.-David H. Smith and E. E. Smith, of Glenn Spring, S. C., for an Improvement in Plows:
 hrended ende, II, the whole subetantially as and for the purpose 27, 746.-H. G. Smith, of Muscatine, Iowa, for an Im proved Metal Head for Brooms:
I claim forming the broom and brush head of two parts, A A, con-
c, and keys, $d$, sub. stantially as and for the purpose set forth.
[The object of this invention is to obtain a simple and efficlent cas head for holdiag a broom or brush, and berving as a means to connect the same to a proper handle. The invention consists in the and lips and forming sockets Irone plates connected together by key ceive the broom or brush.]
27,747.-Joseph Smith, of New York City, for an Im
proved Curtain Fixture.
I clatm the combination of the hooked pawl, with its grooved pul-
ey, $H$, spring, $J$, and ratchet wheel, $P$, arranged and operated with one cord, so as to raise, lower, or stop the curtain at any desire
[This invention consists in applying to the end of the curtain rolle a rachet wheel, and iu combining with this wheel a pecullar shaped awl that piroted to the widow rame ove the rhet whee , aid pawicarrying oing with the ratchet wheel. The operation is simply to draw on the cord til the pawl is disengaged from the wheel, when the curtain be rolled up or drawn at pleasure.]
27,748.-S. P. Sweeney, of Columbia, Texab, for an Improvement in Cotton Seed Planters:
I claim, first The adjustable; Oscillating, planting apparatus, $A$
constructed and operatina as degcribed.
Sceond, The combination of the stirrer, $h$, and agitator, $A$; as de

27,749.-A. W. Tanner and O. P. Gorton, of Paw
Paw, Mich., for an Improved Window Curtain Fix ture
We claim, first, The employment of the, wheel, a, when the asme
shall be constructed and used, substantially as and for the purpose
specifled. We claim the spools, a a pulleys, bh, and cords, mand m
Second, Whation
in combi nation with a wheol, d, the whole being con tructed and ar ranged substantially as and for the purpose set forth.
27,750.-T. R. Taylor, of Cleveland, Ohio, for an Improved Horse-shoe Machine
I cluim, firct, The combination of a reciprocatins male die, $N$,
peciprocating female die, O and a pair of revested, reciprocntine, and swingling jaws, $R R$ the whole arranked and operating in relation
to each other, aubstantially as described. Second, The combination of the projections, 10, 10, on the mal
 cribed, to produce the toe calk.
Fourth, Effecting the closing of the swinging jaws, $R$ R, by thei Fescent into an oppening, $\nabla \mathrm{v}$, in the bed-plate of the machine, sub
stantially as deacribed. Fifth, The attachment of the movable cutter, U, to a slide, U' nr-ially- as specified
[This invention consists inca novel system of dies, and in certai bya continuous operation. Drawings would be necessary to explain he invention fully.]
7,751.-A. L. O. Wall, Geo. Roberts, and M. S. Car
Plows: We claim th
e ovoid-shaped mole in combination with the scoopin
ntially as described for the purposes set forth 7,752.-P. L. Weimer, of Lebanon, Pa., for an Im
provement in Governor Valves of Steam Engines:
 latches, H, and adjusted by the governor attached to the arms, W
operating, the sbaft, by means of an eccentric, X, working in the
fame, R, in such manner that whenthe engina sliphtly changes it fame, R, in such manner that when the engine slightly chankes its
epeed, the enaif, with itta arms. T, will be moved from or towards the
27,753.-J. W. Wetmore, of Erie, Pa., for a Legisla
tive Voting Register:
blocks or types, each of which moves in lependently ofthe othera, an
purpose set forth
Second, The combination of the printing mechanism with the balInting mechanism, when the two are arranged in such manner as to be operated simultaneously by the same mechanism, for the purpose
get forth. Construcling the bal lot boxes of such capacity as to contain
Third but one ballot bail at a time, when the samesre, provided with doors
escape of sides. or valves, at top and Dottom, to prevent the en escape of sildes. or vaives, at top and botwor to prevent the ed
trance or more than one ballot ail at each vote.
Fourth, Constructing the ballot-boxes with an entrance door, slide or valve under the control ofthe spoakes, or other proper offier r, and
anaexit door, blide, or valve, therated brand under the excluid ve con-
trol of each voter, for the purpose deecribed.

Fifh, An automatic counting or registering apparatus, operated by
clockwork, or its equivalent, to indicate optically the number of votee cast. Sth, The combination of the balloting mechanism with the
counting or registering mechaniam, when arranged in such mancr that the latter is operated by the passage of the ballot balls from
 Seventh, The conibination of a printing mechanism, a balloting
mechanism, and a counting or registering mechanism, when the
same are arraneed for joint operation, in such manner that each one mechanism, and a counting or registering mechanism, when the
same are arranped for joint operation, in buch manner that each one
aerves a sa check, whereby to ascertain the accuracy of the operation aerves asa ch
of the other s .
27, 754.-W. W. Williams, of Elizabeth City, N. C., for
an Improvement in Sowing Machines:

27,755. -I. W. Boynton, of New York City, assignor to himself and Durham \& Booth, of New Haven,
Conn., for an Improvement in Attaching Thills to Vehicles:
I claim the use of the hook and eye, in combination wit the the flanged
plate and rubber, when the presure of the rubber a gainst the e plate and rubber, when the presure
pegulated by mean of theflanged plate with ithers itrew bolt, and the
whole is constructed and made to operate substantially as described. 27,756.-Chas. Deidricli and Wm. T. Slocum (ussignors to J. T. Mason \& Co.) of Philadelphia, Pa., for an
Improved Machine for Making Metal Caps for Boxes:
Weclaim, first, The shootor conductor, $S$, with its bent tongue, $Z$,
ita inclincd side, vertical cham bet, and opening, $x$, the whole belng

 chamber, the shoot, ${ }^{\text {S }}$
the purpose set fort. 27,757-Geo. Fetter (assignor to himself, Edw. Jones,
and J. P. Cowley), of Philadelphia, Pa., for an
Improvement in Cutting Apparatus for Harvesters: I claim, first, Arranging the vibrating knives upon separate in-
clined planes, so formed on the cutter bar that the said knives may underleth and overlap each other in the manner specified.
Second, I claim the driving bars $C$ and $D$, with their
rojectiont, or equivalents thereto, In combination wth the inclined oives and their forked shanks, the whole being arr anged and oper 27,758.-F. G. Johnson, of Bellwood, Sag Harbor, N
Y., assignor to himself and D. F. Tompkins, of

Newark, N. J., for an Improved Wind Machine for Pumping Water:
I claim thie wind surface, A $h$, in combination with the vane, $b$,
connecting arm, $k f$, rod, $c$, and weight, $R$, the whole constructed and 27,759.-Alex. McElroy and R. B. Mclilroy (assigno
to R. B. McElroy), of Waupun, Wis., for an Im provement in Seeding Machines:

 apse e the whol being used substantial
specified for scattering the seed broadcast
27,760.-John MeMurtry, of Fayette county, Ky., as signor to G. B. Kinkead, of Lexingten, Ky., for an Improvement in Operating Hoisting Wheels:
Claim-The removing the pfnion, , ${ }_{5}$ entirely out of gear with the curn freely, a ad at the same time, at will, either tolet the pinion, ${ }^{\text {g }}$,
and eat betwen the gearing of the fast and slow motion or csu se it
paes immediately in cear with the fast or return it to the slow mo
ion, substan tially as deacribed and for the purpos 27,761. -Thomas Newlove (assignor to himself, Jame Bowley, and T. Lynch, Jr.), of Chicago, Ill., for an Improvement in Sewing Machines:
I claim the combination of the sheathed guide lever, ,
 27,762.-John Stevens (assignor to H. Brind), of New

York City, for an Improvement in Mechanism for
Threadine Sewing Machine Needles:
I claim. first The combination and arrangement of the perforated Fiece, 3 . provided with a set screw, or other convenient means of nt-
tachur it to the needle with the arm, 6 , jointed to the plece, 3 , as decribed and shown, in such a manner as to furnieh a ready and con venient means of, zcuring the accurate adjustment longtudingly
with the needle, to cause the hook, 7 , to enter the eye of the needle Second, The combination with the arm, 6 , containing the hook, 7 ,
of the flanges, 88 , to secure the properlateral adjuatmient of the hook, ubstantially as get forth.
Third, The combination with the folding arm, 6 , and with the
eeddle-beam, of the spring, 9 , bubstantially as and for thepurpose set Thir
needle
forth.
27, 763.-Wm. Thomas (assignor to himself and Wm
Webb), of New York City, for an Improvement in Machines for Molding Candles:
I claim, first, The pourring pan fitted with holes so formed as to en
luse in combination with the wickholders, the top of each mold, as deacribed, I claim the arrangement of the wickholders upon Blides,
Second,
so as to be capable ot shifing the wicks to one side of the mold for onilo capable of shining the wicks to one side of the molds Third I claim the supporting frame, operating incombination with
the diachar cing apparatur, nond with the wickbold ery for raising and
supporting the candles after they are discharged, as deecribed.
27,764.-G. W. N. Yost (assignor to G. W. N. Yost \&
Co.), of Yellow Springs, Ohio, for an Improvemen
in Corn Planters:
I claim the arra ngement of the cams, $G$, slides, $F$, and crank pin,
II, In connection $\begin{aligned} & \text { ith the radial arms, } \\ & \text { purposes substantially as deacribed }\end{aligned}$ in the manner and for the Werissues
Warren Gale, of Chicopee Falls, Mass., for an Improve ment in Straw-cutters. Patented Sept. 12, 1854 I claim, frot, The arranging of the flange or fanges on one cylin-
der, so that they will meet the knife or knives on the other cyli der as the $t$ wo cylin ders rotase, substantially in the mamer deseribed
and this 1 claim whether the flange is or is not made of, or armed on Second, I, also claim, in combination with the flanged cylinder, the
throat, placed in such relative position to sain cvlindels as to nearly meet the latter at a desired point in their revolution, thus asiisting to give a long cut if said throat be expanded, and a
the throat is contracted, substantially as described.
Ahraham R. Hurst, of Chambersburg, Pa., for an Im
provement in Manure Excavators. Fatented Aug
I claim, firt, The employment of the hinged pitchfork or rake ination with the curved hinged locking bar, $F$, and a draft bar, $B$ a


Robert Marcher, of New York City, for an Improve ment in Machine for Enameling Moldings. Pat ented July 26, 1859:
If claim the combination of the mechanism, ortheequivalent there.




stantially ns and for the purrose specified.
$A_{n}$ I $I$ also claim, in combination with the parto enumer ted
claimed in combination in the second of the above claims, the em
 of the reverse form of the molding, substantially as and for the pur
poose perecifid.



George K. Snow, of Watertown, Mass.. for an Improve
ment in Machines for Folding Paper. Patented Oct. 15, 1850:
Iflaim, frst, A Alotted, plate, B, table or contrivance, for receirin
 there shali be one of the Eaid platee on ench side of sheen ang p, of the


And, in combination with the above, I Iloo claim a gecond striking

 And Claim in combination with Auch second combination of me Iding plate, S , and friction rollure, p, p, or equi, valant oontrivances,
 thgir a hhird time, and aubse quentry discharging it guch diactharte
Bos trikitino or doubling plate, at des cribed.

fallo ela in a mumbination composed not only of
solding gheinetn an ormbination composed not onify of machinery for




Wm. Wharton, Jr., of Philadelphia, Pa., for an ImProve Pail roads. Patented Dec. 13, 1859



those of another track, ns set forth.
Robert Cartwright, of Ithaca, N. Y., for an Improve ment in Canal Boat Propellers. 'Patented July 19, 1859:
 de crrbed II the patent to which thhi s. sa a additional inpprovenent
with the exception of the bed plate, way be taken out or put in ite
James Emerson, of Boston, Mass., for an Improvement in Ship's Windlasses. Patented Ang. 28, 1855 :



H. P. Gatchell (assignor to E. J. Bates). of Ravenna, Ohio, for an Improvement in Cotfee Pots. Patented Nov. 22, 1859:
I Ilaim the special arrankement of the inclined planes or sections
of acrew,
apecifed.
in Checking Patent April 4, 1846:
I clalm the method described of arreating the momentum of the

Joshua H. Butterworth, of Dover, N. J., for an Improvement in DoorLocks. Patented April 11, 1846
 lever, 2 , which act upon the movable talon, in combination with
the forable talon and the preventive top or flying tumbler, also
set forth.
Thomas J. Wells, of New York City, for an Improvement in Sawmills. Prtented April 11, 1846:



Samuel Armitage, of St. Louis, Mo., for a Design for a Trade-mark for Netralgic Pills.
Samnel Boyd, of New York City, for a Design for Andirons. (2 cases.)
James C. Karr, of Williamson county, Tenn., for a Design for Coffins
George W. Smith, of Hartford, Conn., for a Design for Ice Pitchers.
Theodore W. Lillagore (assignor to Savery ${ }^{\&}$ Co.), of
Philadelphia, Pa., for a Design for Fire-dogs. Philadelphia, Pa., for a Design for Fire-dogs.
David McNair, of Roxbury, Mass.. assignor to the Roxbury Carpet Company, of Boston, Mass., for a

Charles Muller (assignor to John Mathews), of New York City, for a Design for Water-coolers.
Francis J. Pierce, of Lowell, Mass., assignor to the Roxbury Carpet Company, of Boston, Mass., for Design for Carpets.
Joseph Rosenthal (assignor to Joseph Reckendorfer), of Lead Pencils.
Joseph Rosenthal (assignor to Joseph Reckendorfer), of New York City, for a Design for Stamping on Lead Pencils.

## Hote8eequerives

P. M., of N. Y.-A high pressure steam engine is one which works with steam without condensing. The pressure carried in such engines
pressure is about 40 ibs.
A. N , of N. H. - Ivory and ebony, for the keys of piano fortes, are polished with fine emery paper, and then rubbed up with whiting in the same manner that ano lard unvarnished wood is
. S. B., of La.-The back volumes of the Scientific Amerioan are the source to which we can direct attention for illus trations and descriptions of sawing and shingle machines, and al other kinde of machines for working in wood.
A. E. D., of La.-The best work on electro-magnetism applied to telegraphing, \&c., published in our language, is Shaff-
ner's. The publishers in this city are Pudney \& Ruseell, No. ner's. The p
John-street.
L. R., of Pa.-Partridge \& Bros., Cliff-street, this city H. G. S., of N. Y.-Come to this city and you will see one'of the Englishcastateel bella When cast ateetio melted sad poured into a mold, it does not become pig iron-it is stlll cas steel. A broken steel bell may be sold for acrap steel; it is mor valuable than pig iron certainls.
T. R. C., of N. Y.-It would take the space of a whole column to answer all your inquiries. We advise sou to get Bourne's "Treatise on Propellers" and give it a thorough perusal The subject of propellers is, as you say, ene of great commercial and others who are perfectly familiar with it.
D. D., of N. Y.-A "unit of heat" means the mechanical energy required to raise the temperature of water one defre from 390 Fah. It means 772 pounds lined one foot, and is calle Joule Ga - Y will certainl raise more friction
. S., of Ga. --Y ou will certainly raise more steam with a boiler 4 feet in diameter, 12 feet long and having 47 return 8inch
flues, than with jour old 22 -inch flue boiler. You may use yourold
 silimity in carrying it from the boiler to the cylinder. It will
. E. T., of N. Y.-The upper portion of a wagon wheel does move faster horizontally than the bottom
. W. A., of Texas. - In lithographing in colors, each color is printed from a separate stone; each atone being made of the full size of the print, and thecolor placed on it in the prope H. C. P., of N. Y.-As your article on dialing would require an engraving to illustrate, we shall be obliged to pass it, at
all events, for the present. as our artists are very much hurrled all event
I. S. B., of Pa.-A very thin coat of copal varnish applied to a clean iron pattern, and dried thoroughly in an oven, wil uscd in a damp mold
S. H. W., of N. Y.-Your alleged improvement in fire The same thing was natented in 1849 ,
J. A. A., of N. J.-If you boil cotton or linen cloth for half an hour in a weak solution of sumac and alam, or sumac and the sulphate of copper, then dry it thoroughly, it will endure four times longer when exposed to the weatherthan ifit wasunpre pared.
E., of Md.-We are not awarc of any experiments having been made to manufacture cast ateel type. The nature of
the metal, owing to its shrinking in the mold, would prevent it the metal, owing to ite shrinking in the mold, would prevent
J. W. M., of Mass.-The experiments with water wheels at Philadelphia are not quite complete; we shall present the report of them as 0000 as posible. Your water wheel is origi nal, and if you can prove that it has advantages, a patent can be secured, but we do not think itis quite so good as some other Which are nore simple. Some of the wheels at Philadelphia gav
B. F. B., of Pa . It would be practicable to fill the space between the plastering and siding of houses with sawdust or
tan bark. In order to get the full benefit from it, great careshould be taken to keepit dry, even from moisture soaking np from the bottom
A. G., of Mass.-The motion of the planet Jupiter is westward in relation to the sun, but not in relation to the fixed stars ; it is, however, as wellas Saturn, nearly stationary, and this, of course, brings it at a given hour about one degree further we $t$ every night. The motions of the exterior planets are the same, not in a year, butin periods of time which are longer than a year C. M., of Mass. - Would it not be better to fill a vault with some di infecting substance, such as charcoal doet, rather than attempt the difficult, if not impossible, task of making it air-
tieht? The charcoal, when fully improconted, would be very valtieht? The charcoal, when fullyimproconted, would be very val-
uable sor manure.
W. P. De S., of ———Your article on the "Heli coidal Surface and its Development" is too purely mathematical Monthly," published by Ivtson \& Phinney, of this city.
J. W. P., of C. E.-We do not know where you can procure a tobacco-cutting machine ; but presume an advertisement
for it in our paper would attract the attention of some one who for it in our paper would attract could furnish you
C. H. W., of Mass.-Byrne's " Mctal-workers' Assistant" will give you all the information regarding allose of metals. I is published by H. C. Baird, Philadelphia.
O. S., of Conn.-New belts should be stretched before they are put on the palless; and when thes become slack by running, they should be taken up, or else a friction pulley put on to makethem "taut."
C. B. B., of Wis. - With the utmost care, it is scarcely poseible to apply any varnish to a pencil drawing without soiling it. A weak solution of isinglass, however, is the best that is known $t$ by any varnish.
J. A. G., of Ohio.-There is no American work published on gas-lightiag. Parnell's book on this subject was pub lished several years since in London, and is a very good treatis 18e, aterling per annum. It "London Journal of Gae.lig but Fle atrect, London.
J. C., of Ohio.-The triple or three-faced iron rail is an old invention. It was patented in England in 1846, and has fre n to us sixce
W. B. O., of Cal.-We do not believe a gond egg hatohing machine can be obtained. We do not know of a alngla one in use.

## Monos Reccived

Al tho Scientific American Office on account of Paten Office business, for the week ending Saturday, A), ril 7, 1880:J.D., of N. Y., $\$ 30$; J. A., of Pa., $\$ 25$; J. B., of N. Y., $\$ 30$; J. R
 Y. $\$ 10$; B. H., of Conn. $\$ 30$ - J. J. of III., $\$ 25$; E. B. C. 0
 M я 8 ., $\$ 30$; H. M. W., of Conn., $\$ 30$; J. S., of N. Y., $\$ 28$; C.T.P N. Y., $\$ .58$; S. W. B., of N. Y., $\$ 60$. I. W. K., of Cal., $\$ 30$; W
J. McC., of N. Y., $\$ 10$. P. B., of N. Y., $\$ 3 n ;$ H. A. M., of Ill., $\$ 35$ V. \& C., of Ga., $\$ 25$; E. \& D., of Masm., $\$ 25 ;$ J. W. H., of III., $\$ 30$; W. J. A., of Tenn., \$25; S. F. B., of Mass., \$50; N. A. P., of Tenn. $\$ 30 ;$ S. A. G., of N. Y., $\$ 30$; J. A. McL., of Ky., $\$ 10 ;$ I. H. F., of Pa.,
$\$ 30$; A. W., of Conn., $\$ 30$ A. K. T., of Mich., $\$ 25 ;$ H. \& M., of Ohic, $\$ 25$; L Honn., $\$ 30$; A. K. T., of Mich., $\$ 25$; H. \& M., J of Conn, $\$ 28$; L.S. C., of N. Y,, $\$ 88 ;$ D. H., of Mass., $\$ 30 ;$ C. E.
S., of Wic., $\$ 15 ;$ J. \& S., of R. I., $\$ 25$; S. K., of Cal., $\$ 30$; W. R S., of Wis.. $\$ 35$; R. W., of III., $\$ 25 ;$ I. C., of Iowa, $\$ 25 ;$ L. O. C.,
of N. Y., $\$ 55$; J. P. W., of K. ., $\$ 25 ;$ J. M. C., of S. C., $\$ 20 ;$ S. S
 of Mase., $\$ 25 ; \mathbf{W}$. H. C.,nf Ill., $\$ 30 ;$ N. H. G., of Conn., $\$ 35 ;$ W
A. H, of R. I., $\$ 30 ;$ N. P, of N. J., $\$ 30 ;$ A. C. K., of N. Y., $\$ 30$ : . B. M., of III,, $\$ 20$; C. G. \& II. M. P., of Mase., $\$ 10$; G. S., of
 W., of Ohio, $\$ 45$; C.\& B., of III., $\$ 64$; J. A. S., of Wis, $\$ 10$; J. J McD., of Ill., $\$ 60$; S. B., Jr., of N. Y., $\$ 25$; J. H. H., of Vt., $\$ 32$
J G., Sr., of R. I., $\$ 25$; A. H. H., of Ga., $\$ 10:$ R. C. B
 $\$ 30$; C. M., of N. Y., $\$ 30$.

Specifications, drawings and models belonging to par ties with the following initials have been forwarded to tha Psten Offee during the week ending Saturday, April 7, 1860:-
D. H., of Mane.; J.J., of N. Y.; S. M., of Va.; N. \&C. of Ga.; F. T., of II.; J. P. W., of Ky ; J. E. E., of Pa.; S. S., of Mase.; A. K.
T., of Mich.i W. B., of Ohio F. F. S., of III.; P. © C., of N. Y.; C. S. S., of Wis.; C. A. B., of Vt.; E. \& D., of Mase.; H. A. M., of Inl. W. D., Jr., of Pa.; W. J. A., of Tenn.; S F. B., of Mass. (2 cases) E. B. C., of Fla.; H. E. \& B., of N. J.; H. \& M., of Ohio ; J. H., of Mas.; J. A., of Pa.; J. W. K., of Cal.; J. \& S., of R. I.; I. C., of
Iowa ; R. W., of Ill.; C. G. S., of N. C.; D. A., of Ohio; J. S., of N. Y.; A. W., of Conn.; J. J., of In.; J A. McC., of Kry; II. W. A., of N. Y.; L. S. C., of N. Y.; L. O. C., of N. Y.; J. G G Sr., of R. I.; J. W. C., Jr., of Iil.; S. B., Jr., of N. Y.; C. F. B., of R. I. (2 casee) H. \& J., of Ohio ; S. \& O., of Wis.; O. L. R., of Ga.; C. E. G., of
Minn.; R. P. A., of N. Y.; M. C., of N. Y.; A. W., of N. Y.; C. M., of Minn.; R. P. A., of N. Y.; M. C., of N. Y.; A. W., of
N. Y.; S. W. B., of N. Y. (2 cлses); A. C., of N. Y.

## Literary Notices.

Cagsele's Illuistrated Family Bible.-We anannounced, a fer weekg ago the enmmencempent of the molication
othin famons work in the United States. Four parts only have been
 airealy iggued bere suatain most fully the bighly valuable character
which the work presented to ue on viewing the first number. The Which the work presented to us on vilewing the first number. The
illustrations areprofuse, and many of them are taken from paintlng
by the moin celebrated mate
 the work, or carry it on in the st yle of the bekinning. But no pereon

 hands ind to do, will be deterred, by reason
obtaining early possegsion of the numbers or
but traly magnificent edition of the Bible.
The Gold Fields of St. Domingo. By W. S.
 of numbers of people, by luring them th the promining gold mines of
the negro republic. It is very intereating, and is made intelligible by ${ }^{1}$ map.
Treatise on Photography. By Charles Waldack, Cincinnati.-A cheap and rom
cal chemist and photographer.
Hygienic and Litrrary Magazine. M. A. Malmaby, editor and proprietor, Allanta, Ga- This nicw monthly ${ }^{\text {do }}$
devoted to literature and that other erbject on which all human
happiness and well-being depends
Weissenborn's American Engineering, published in Fulton-street, this city, is the best and most recent work on the
steam engine suitable for Americana.

