## TREATISES AND INTEENTIONS DESIRED IN FRANCE.

We find in the last number of l'Invention a list of the prizes offered by the Industrial Society of Amiens, and though it is too late for competition from this country, the list may be interesting; we accordingly present a brief translation.
First-Memoir on the fabrication and sale of bricks in the department of the Somme. Silver medal.
Second-Memoir on the construction of the buildings and the arrangement of the machines for the manufacture of linen, cotton and wool cloth. Gold medal.

Third-Memoir, with designs on machines, for raising the materials in constructing buildings. Silver medal.
Fourth-Prize for the inveution of a pyrometer for measting the temperature of the gases escaping from the furnaces of steam boilers. Silver medal.
Fifith-Prize for the best heaters of steam boilers in the department of the Somme. $\$ 100$.
Sixth-Prize for the invention and application of a good meter for measuring the water fed to steam boilers. Gold medal.

Seventh-Prize to be distributed to a certain number of workmen of the department, remarkable for their conduct, labor, morality and devotedness.
Eighth-Construction of a power loom in which the feed and take-up shall proceed regularly without requiring any manual adjustment from the beginning to the end of the work. Gold medal.
Ninth-Construction of an automatic knitting loom making the return stitch. Gold medal.
Tenth-Construction of an automatic knitling loom, making the return stitch and narrowing. Gold medal and $\$ 20$,

Eleventh-Prize for the best description of a spinning of wool mixed in all its parts. $\$ 60$ given by M . Vayson.
Thoelfh-Prize for the best description of a dyehouse for dyeing woolen yarn in the skin; the heating to be done by steam, which must also supply a small engine. $\$ 40$ given by M. Vayson.
Thirteent/l-Prize for the invention of a good dress ing or facing for linen cloth. $\$ 20$ given by M. Boudard.

Fourteenth-Memoir ou the improvement of lands. Silver medal.
Fifteenth-What will be the advantages of the cultivation of tobacco in the department of the Somme. Silver medal.
Sixteenth-Indicate new means for the preservation of grains in store. Gold medal.

Seventeenth-Present the finest and richest collection of woods of the country, worked and in the rough. Silver medal.
Eighteenth-To find for the velvets of Utrecht, a dressing filhing the following conditions:-1st, To be without odor; 2d, Not to alter, either in color, softness or brilliancy; 3d, To preserve the softness on the tissue; 4th, Aclapted to any length of nap. Gold medal and prize of $\$ 20$.

Nineteenth-To find the means of producing the bitartrate of potassa, otherwise than by deposit from wines. $\$ 200$.

Twentieth-For a composition which in dyeing woolens will replace with a notable economy tartar in colors requiring the employment of the salts of t : n . \$200 and a gold medal.

Twenty-first-To find the means of giving immediately and with economy to the decoctions of Campeachy the tinctorial force which they acquire only by age. Silver medal.
Twenty-second-To find for dressiug cotton velvet a preparation which will replace animal glue, at the same time giving suppleness to the tissue, and preserving to it the strength necessary for sale. The mucilage must be economical, without odor, and without action on the colors. Gold metal.
Twenty-third-For specimens of cotton velvet having the qualities of English velvet in color and solidity. Gold medal.

Twenty-fourth-For an easy means of detecting the adulteration of oils. Gold medal.
Twenty-fifh-For a better means of bleaching cotton velvet, cut and not cut. Silver medal.

Iwenty-sixth-For a lubricating oil. Gold medal.
Twenty-seventh-The invention of a machine to
measure in a practical manner the lubricating qualities of oils.
Twenty-eighth-A means of applying in a practical manner hydrate of alumina to the filtration of sugars. Twenty-ninth-A memoir on the use of trade marks, and the means of rendering them practically efficacious.
Thirtieth-To set forth the advantages and the inconveniences which result, in both a moral and material point of view, from an increase of the working population in the great manufacturing centers, in consequence of the development of industry. Gold medal.
Thirty-first-Study on the industrial arts in the department of the Somme, and on their progress or decline from the thirteenth century to the present time. Gold medal.

Thirty-second-Study on the habitual maladies of the workmen of the department of the Somme, following their diverse professions. What are the hygienic measures to be employed for each class of workmen? Gold medal.

## "Cannel Coal."

About a century agothecelebrated Duke of Bridgewater was the proprietor of a large estate situated at a place called Worsley, seven miles from Manchester. This estate contained numberless valuable coal seams, casily to be got at, but nevertheless comparatively worthless, in consequence of the great expense and difflculty of transporting the coal to market. The Duke, being a singularly enterprising individual, determined, if possible, to remedy this defect, and by one of those happy coincidences which so frequently reward a praiseworthy effort, he found, in the selfinstrncted genius James Brindiey, the very man to contrive the means for securing the desired end. Suffice it to say that Brindley constructed an excellent proft-paying canal between Liverpool, Manchester, Worsely, and the Great Wigan district. This canal appears to have been floished about the year 1766, and store-houses were built at various points at its course, where the Duke's coal was deposited, for the purpose of supplying the immediate neighborhood. At this time the word "kennel" or "kannel" ws. generally employed in Lancashire and Cheshire to designate an artificial watercourse; and even Brindley himself, in some of his letters, speaks of a new nudertaking as " the Duke's kennel." It is not, therefore, surprising that the Duke's coal should have received the name of "kennel coal," being, so to say, kennel borne; and this name would be peculiarly applicable at Liverpool, where sea-borne coal from Whitchaven, in Cumberland, had long been in use, and was, moreover, an article differing in many of its qualities from the Duke's coal. That this is the true origin of the name now applied to this kind of coal is further established by the fact that the eminent geologist Werner, who visited the coal districts of England not long after the above period,has adopted the very word, and in speaking of the Wigan coal calls it "kennel kohle." This word has indeed been lately written " cannel" in tinis country, and some ingenious persons, finding themselves quite at a loss to discover the source of such a name, come to the conclusion that it is derived from the word "candle," and to support this they have,asserted that slips of this kind of coal will burn like a candle; an assertion which we need hardly say is altogether .abulous.-New!on's Journal of Arts.

## SPECIAL NOTICES.

James Warren, of Springfield, Mass., has petitioned tor the extension of a patent granted to him on the 15th day of July, 1851, for au improvement in revolving breech-loading fire-arms.
Lemis Lillie, of Troy, N. Y., has petitioned for the extension of a patent granted to him on the 15th day of July, 1851, for an improvement in fire-proof safes.
Parties wishing to oppose the above extensions must appear and show cause on the 26th day of June next, at 12 o'clock, M., when the petition will be heard.

White-wasied walls which are to be papered should be well brushed over with strong vinegar previously, or the paste will not adhere.
IT is asserted that the disbandment of Lee's army has reduced the expenses of Government $\$ 1,000,000$ a day.


ISSUED FROM THE UNITED STATES PATENT-OFFICE for tee weex ending april 25, 1865.
Exportiad ofically ior the Scientuc $\Delta$ merkion.
ser Pamphlets containing the Patent Laws and ful particulars of the mode of applying for Letters Paten $t$ specifying size of model required and much other in formation useful to inventors, may be had gratis by addressing MUNN \& CO.. Publishers of the Scientific american, New York.
47,374.-Slide for Extension Table.-Erastus P. Allyn, North Canan, Conn.:
I calaim a allade for extension tables manufactured of malleable
 as herein deseribed.
[This invention consists in having a series of alldes of malleable cast-iron, and fitted together by means of dovetall projections and grooves, and provided with stops, whereby a very economical and desirablesildetor the purpose specilied is obtained, and the annoy-
ances and embarrassments occasioned by the shrinling, awelling ances and embarrassments occasioned by the shrinking
and warping of the ordinary wooden allides are avol ci d.l
and warping of the ordinary wooden alides are avol ci d.l
47,375.-Coffin Handle.-Ira Almy, Farmer, N. Y. : medlum of detachable comin handle, secured to a comp through the deacribed.
[The object of this lnvention is to obtain a handle whlecmay be readily applied to a coffin, and detached from it in a moment of time, and wlthout the ald of any mechanical tools, whereby a set of handlesmay be appiled to an indefnite number of coffins, the rormer being applied to a coffon when the bods is plac dinit, and removed when the cominis to be encased or deposited in its inal place.]
47,370.-Paper Bag.-James Arkell, Benj. Smith and
Adam Smith, Canajoharie, N. Y.: We clajm as a new article of man uracture a quadrangular paper
, [This in
a way as togive to them at their upper ende a fexible character, so that when properly filled with flour or other substances the sides of the bags at their upper ends will come together after the manner of the sides of a cloth bag.]
47,377.-Steam Engine.-John Baird, New York City : I claim, Firat, A horizontal engine. pronded with a box raming
near and aithehed the cyinder, and cookiling rerical pampa substantially as described, said rramlng also constituting the con
denerer or the channel wasi thereor.
second, 1 claim a horizonal cagine. having a box framing, con-
taining pumpa and an independent pulow block framion whe the talning pumpaiand an Independent puliow block a framilig., when the the
latter ip combined with the former $6 y$ wrouglt-iron rods, substan
 engines have openings througli the framing for the paeasage of a
propeller shaft or shafts, substantially as her elnbefore described. 47,378.-Table and Desk.-Cyrus Baldwin, Manchester N. H.:

I claim the combination of the table and writing desk, when ar
ranged to operate substantialis as set forth. 47,379.-Hay Rack.-Goldsmith Baldwin, Blufton, Ind.: set forth.
47,380.-Cultivator.-Lester B. Barton, Metamora, Ill.

 [This invention relates to an improved cultivator, of that class in which the pluwn or shovels have a lateral adjustable movement, in order that they may be made to conform to the sinuosities of the rows of plants, and cast the earth up to the same or cast it there from, without the liablity of plowing out the plants or injuring the roots thercof.]
47,381.-Coal-oil Burner.-W. W. Batchelder, New York
City :
clalm the employment, in combination with a tnbular wick
bolder and vapor or Gasegencrating and alr-mixing chamber, of a bolder and vapor or tas-gencrating and alr-mixinz chamber of a
perforated plate, ort the equivalent thereof, togetter with a metallic
or other hent conductor or conductors projecting downards and per forated piate, or the equivalent thereof, together wi tha metallic
or other hent conductor or conductors projecting downward and
dipplag into the wict. eubstantially in the manner hercin described, dipplng into the wick, aubstantiall
for operation as herein set forth.
47,382.-Microscope.-J. J. Bausch (assignor to Bausch clalm the combination of, the Y.: I cialm the combination of the object piece, A, eve plece, B,
sprina; $\mathbf{C}$, substantially as and ior the purpose be rein set forth. 47,483. - Churn. - Charles F. Baylor, Clinton, N. J.:
I claim the combination of the belt and rollers, subbstantijally as de
scribed, with the slides, S and T , attached to the dasher shats and
 crank andits conncetions, as described and represented.

7,384.-Shaking and Rocking Table for Amalgamating
Gold, Etc.-Adolph Behr and Wm. James Ward, Gold, Etc.-Adolph Beh
Black Hawk, Colorado :
We claim a 8 hakling or rocklog cable, with amalgamated copper or
brass rifes or itional quicksi ver, alone ar in connection with one or more wooden
 snbseancesa auspended io water both the ailing gand plashlimparition
which throws and forces the particles in contact with tise amal gamath aurface of the copper or brases rif cos or grooves.
47,385.-Manufacture of Soap.-Jacob B. Bennett and 7,385.-Manufacture of Soap.-Jacob B. Bennett a
James S. Gibbs, Buffalo, N. Y.: We claim the agitation and commingiling by any sultable ma

combinationas
quality of Boap.
47,386.-Straw Cutter and Feed Mixer Combined.-E. F.
I clalm the special arrengement of the hopper, $H$, mixer, $F$, shaft,
 cutter,
pose
set forther
47,387.-Press.-Louis Boudreanx, Thibodaux, La.:


[This invention relates to a new and Improved press for compress ling substances such as cotton, has, ctc., for the purpose of baling the same. the press may be used in cither a vertical or horizontal position and by any convenient power.l
47,388.-Coupling for Shafting.-Robert Briggs, Phila delphia, Pa.:
 casting or forging C. With a slot or open
47,389.-Galvanic Battery.-Danicl J. Brown and Cyrus We claim the arrangement of the :
We claim the arrangement, of the separate Iron positive bars or
rods, $\mathbf{C}$, mdialy around. and ta combination with the carbona. ceoun negative plate, D, substantially as and for the purposes hercin
4,390.-Engine for Operating Rock Drills.-James D. Butler, North Adams, Mass.:

 Inill, N and tha tulupar piston, C. And I also claim the combina.
tion of the collar, $Q$, there mith, the same being for the Durpose specifled.
I aliso claim the connection of the crosshead, Q, with the piston
rod, $C$ In such manucr that there may be a freedom of transverse rod, C.In such manuer that there may be a frepdom of transverse ase hase claimetrore dese combination of the cushloning space, $\mathbf{x}$, and the
In piston extenslon, b" b", or their equivalents, with the port, $r^{\prime}$, ar.
ra nged in the cylinder, aud with reicrence ts such space, substan-
riauly in manner sa specifed I also claim the construction of the cslinder, $A$, with the reduction

 seres of notches, h h, or the ir equivalet ts, with the hollow cone,

 I also claim the combrastion a well as the ayrangement of th Also, The combinatinn of the openings, c ce and d, the pliston rods DE, arranged
andor, and the
as described.
47.391.-Artificial Skating Pond.-M. C. Cunpbell, Phll adelphia, Pa.:
I clalm The preparation of a surface with a congealed material or
co mpositlon substantlally as described and for the purpose spectived. 47,392.- Curtain Fixture.-James Chase and Wm. S Longhborough, Rochester, N. Y. Antedated April 15, 1865:
We claim the combination ant? relative arransement of the guide
loop, i, on the bracket, , with the spoul a nd otiong journal socket.

47,393-Apparatus for Obtaining Extracts from Vegcta bles, etc.-John Chi
First, I claim subjecting the substances to the action of heat in a
steam tighthamber or bnx
 the whole or any portion of the extracting process substantially as Second, Providing between such chambers a connecting steam
pi pe, F, by Which steani can be admitted among the substances un-
der treatment uring uny stage of the process, substantally os herein specitted.
47,39.1.-Process for preparing Grain for Distlllation. John Chillcott, Brooklyn, N. Y. Antcdated April 15, 1865:
First, Ir claim the process of preparing grain for distillation by
steaming and crushing it between rollers substantially as herein
described, Second, I claim the combin ation of the steaming vessel, $\Delta$, perfo-
sated pipo. d, hopper, 1 , and rollers, $\mathbf{C} \mathbf{C}$, subst.antlally as and for rated pipe. d, hopper
the purpose set forti
47,395.-Mode of Splicing Timbers.-H. M. Claten First, I clatin the knoibed plates, $C$, as and for the purpose se Second, I elaim the knobued piates, C , in combination with the
link. .or its equivalent substantially as and applied to the purpose
specifted. 47,396.-Breech-loading Fire-arm.-John W. Cochran, Ner York City:
Iclaim the safetf pin. ${ }^{\text {bi, applied and operating eubstantlally as }}$ catcll
47,397.-Horse-shoe. - William Coes, Worcester, Mass.: I'claim the liars, ACC Connected by ioints and provided respect-
ively with a toe ppece or cap. B and lips, D D, and the bars, $C$, as and for the purpose lerein set forth.
[This Invention relates to a new and Improved horse-shoe of that class which are secured to the hoof without the aid of nalls, so that they mas be remored from and secured to the hoof at any time without the services of a smith or shoer.]
47,398.-Mop Head.-Stillman Cooper Antwerp, N. Y. 1 clanm the tixed or permanent jaw, A, provided with oblone slots,

47, 399.-Oil Ejector.-Erastus Crooker, Buffalo, N. Y.:
 47,400.-Device for Well Boring.-James Donnell, Allegheny City, Pa.

47,401.-Sap Pans.-Henry Earl, Edwards, N. Y.:
47,401.-Sap Pans.-Henry Earl, Edwards, N. Y.:
I clalm, Ftrot, The comblaatun of the recelviag plpe, A, with

## steari plpe, D, substantially as and for the purpose set forth sccond, The combination of the movable pan, $H$, with the

 $\Delta$ and D, 晈stantially a a and for the purpose set forth. K, sitsstantially as and for the purpose set forth.
Fifth, The combination of the elideor gate, o. with the main pan
substantlally as and for the purpose set forth. M, substantlally as and for the purpose set forth.
sixth, The winding arrangement or channelling the pan, by sixth, The Finding arrangement or channelling the pan,
means of which the sap, being admitted at the central or hotest
pari of the pana. is conducted to the outer or cooler parts of sail pan substantially as described and tor the purposes set forth
47,402.-Process for Trenting Sirup and Saccharine So
lutions.-Edward P Eastwick lutions.-Edward P. Eastwick, Baltimore, Md. : I claim the use of acids, acid salts or neutral salts for the purpose
or decompolig and altering the colorine componds in molasses
and analogoug sirups, the products of mother liquor remalning after and analogous sirups, the products of mother liquor re
the crystaliaaton or the sugar manfacture or retniog.
47,403 .-AWl.-R. Egan, Brooklvn, N. Y. the crystalizatlon of the sugar mannfacture or retin
$47,403 .-A W l .-R$. Egan, Brooklvn, N. Y.:
I claim, First Constructing awl hafts in the manner substantial Second, In combination with the screw threaded socket plece, B ,
constructed as specifed, If upon the shank of the awl as and for the purpose set forth.
[This Invention consists in a novel manner of fastening an aw sio its haft, whereby it is casily and securely fixed in place withou hand!e.]
47,404--Niming Machine.-William Emris and Henry J. Bosworth Hudson, Mich

We clnim the lever,, , In combimation with the spring, $V$, when
onstructed and operated subs tandially as and for the purpose herein set forth.
47,40j.-Drop Hammer. - John Evans, New Haven
Conn.: Conn.
When they are constructed and attached, substantlally as herein de scribed. I claim the comblnation of the connecting rod with the
Second in, when thev are constructed arranged, and fitted for ai-
cist
47:406.-Pencil and Eraser.-W. R. Evans and I. D.
Benner, Thomaston, Maine
We clalm the combinsed pencll and eraser above de scribed, con
tructed substantlally in the manner above set forth 47,407.-Smelting Copper OF̃es.-Wm. L. Faber, New I claim the City:
I claim the within described process for expelling antlmong and arsenic trom copper and copper ores by roasting with some sub-
stance developing chlorine duri
tially the proc ess of roastlag, substan[The object of this
[The object of this invention is to remove from copper and copper ores during the processof smelting such Impuritics as antimony an arsenic, and this purpose is effected by aprocess which is strictly
confined to copper and copper ores, and which has to confned to copper and copper ores, and which has to be modine
47,408.-Carrlage Jack.-Austin W. Field, Vergennes,
Vt.: I claim the stock or standard, in, petrrated sllding bars, B B. and
lever, $\mathbf{D}$, In connection with the pin, $E$, all arranged substantiaily as Th destribed to form a jack. This invention consists in the employment or use of two paral claced betweet their upper eule, all being arroged la such man placed between their upper ende, all being arranged in such a man he latter elevated and secured In such position with the greatest facillty, to enable the wheels to clear the ground or floor, so that they may be removed from and placed on the axle for lubricating urposes.
7.409.-Coal Brenker._Jacob Fox, Philadelphia, Pa.: I claim a stationary hopper, B B R adiustable at the bottom, $t$
pose specified.
Second. 1 also claim the vibrating plates, $c$ c. in combination with
picks D D, aubstantially as described and for ibe purpose specificil
 47,410.-Mode of Treating Oil Wells to Remove Parafine Tar, etc.-J. Fraser, Buffalo, N. Y. I claim the method or treating petroleum wells with hot liguids for
the removal of ostructions conposed essentially of paraftine, sub. stantially a a set forth.
47,411 . Apparatus for Delivering Paper from Printing
resses.-C 0 Furbush Machas
 projection r, ano and the bolt, comy which the jacs are opened and
the spring, F, and
closed at the approp riate times to recelve. clasp, convey, deliverand closed at the approp riate times to recefve. clasp, conveg, deliverand
return, substantial y as above described and re presented. [This invention consists in the emplosment or use of nippers arranged in such a manner as to
47,412. -Winding and Setting Watches.-Frederick A. Giles, New York City
I claim the combiuation of the wheel, $\mathbf{C}$, having two serics or movable lengthwlse upon the arbor, the aprinf. f, and the sliding
pla, h, the 47,413.-Ventilator.-Henry A. Gouge, Brooklyn, N. Y.: I clain, Firat. The ventile tink apparatug described, withi Ne sev eral parts arreagen the combination of light, $F$, fues, $B$ and $C$, and ventila. E, constructed and arranged substantially as and ior the purpose
47.414.-Coffln.-Thomas Graham, Philadelphia, Pa.: I claim the vessels, , containing alcohol or other equivalent fuid
and arraned in a coffin so as to be detachable therefrom, as set
forth, forth, for the purpose specifled.
47,415.-Grape Wire Support.-F. B. Green, Seneca Falls, N. Y. Antedated April 17, 1865 . I claim making the frame or support, B, alj ustable vertically be-;
tween the posts A A. by mens of the ajusiling holeg and plta, if or equivalent, the whole arranged, comblnad nnd operating substan
Hally in the manner and for the purpose hercln gef forth. 47,416.-Roonng Composition.-Nicolaus Groh, Helenclam a
I claim a roofing compound made of the ingredients herein de
cor tially 1 n the manner herein set forth.
This invention relates to a roofng compound which is perfectis re.proof
47,417.-Grain Scparator.-John H. Hamaker, Trease's Store, Ohio :
 plons, d d, substantlally a s and for the purpose herelin papeif pd
I also claim conveynk the straw and graln forward and upward on a eligle carrler. by gring the said carrier a rapld ibratory mo.
tion through the means of the double sets of cranks and auxillary connecting rod, substantarlily as and or the purpose sei forth
ialso claim communlcating the vibratory motion to the sioe rectly from the vibrating carrier by mod.
or Its cquivalent, as herein described.
47,418.-Lamp-shade Holders.-James Hanley, New York: :
First, I a alm the makivg a ring attachment with cllipg, for the
purpose of holding the ahaute and connecting Fith the lamp.

Second, 1 claim the cllps.
Thlrd, $Y$ claim the mode of connecting the shade to the lamp Flase by suspension.
Fourth. Iclame the loose hanging of the shade, and the conse-
quent horlzontal action. quent horlzontal action.
Finth, I lanm then creasing of the paper. Each clalm subntantially
in the m naer and for the purpose as herein described and set
forth. 47,419.-Marine Propeller.--Austin S. Hatch, Addison I claim the or whecls, $C D$, revolvingla and arrankement of the double screws
of the hull or bittom or wheels, and in combination of the form of their blades, substan-
tlally as and for the purposes hereln specifed 47,420 and for the purposes hereln specifle
47,420.-Removing Foreign Substances from Sugar. First, I claim treating crude sugar to alcohol and sweet milk, sub-
 cloths, after the same has been molstened with alcohol and mills
and pressed once, substantially as described. 47,421.-Implement for Cutting Rubber, etc.-Emil First, I claim an adjustable circular packing cutter, constructed as hereln describel, asba new article of manuracture,
sceond, The movable head, , , bolding the knife, d, in comblnation wlth the rule, A, crew handie, D, and stationary, center, a, con.
structed and operating substantially as and for the purpose set Torthird. The swlveling or stationary a rm rest, b, in the stationary,
head, B, In combliation with the center, a, and adjustable kn fe, d,
constructed and operating substantially as and for the purpose de. constructed and operating substantially as and for the purpose de-
scribel. 47,422.-Stair Rod Fastening.-Henry Jackson, Brook-
 having lts flanges, a, proviled with curved notebes, $e$ [This
This invention relates to an improvement in the ordinary fastenthe stairs, and it consists in the application of a spring to one of the buttons composiag the fastening, whereby the rods are secarely fastened, being prevented from casually slipping off from the but ons by a longitudinal movement.I
47,423.-Fire I'lace.-Wm. H. James, Cincinnati, Ohio:

47,424.-Steam Engine.-Henry Johnson, Pittsburgh, I claim the use of a movable disc or independent piston seated in
the steam cylinder above the working piston, with a steam space be. tween it and the cylinder head, through and $\operatorname{lnt}$ ) which the live

47,425.-Machine for Grinding Paper Pulp.-John F. Jones, Rochester, N. Y.:
Ic laim the machine tor qrinding paper pulp, having the crind ing
surf aces, d $d$, made dishing or in clinei up ward the peripherv, and used in connection upward rithe can the center co
arranged and operating substantlally as and tor the purpose heroln et forth.
47,426.-Gas Heater.-J. H. Jonce, New York City Iclaim the combination and arrangement of the concave or in-
rerted conncal-shaped screen,
gas jet and tube, A., In conne 47,427.-Machine for Oiling Wool.-James Keliy, Troy, N. Y.:
I claim the rollers, A A' one of which, dips in a cistern con-
tainin= oil, while the other serves to spread the wool, when used in tainine oill, while the other serves to spread the wool, when used in
comblnation with a can canu pipcs bc arranged substantlally
as licrein set forth, for the purpose ot keeping up a uniform sup. as licrein set forth, for the p.
ply of oil to the lower roller.
(This invention consists in olling the wool between two rullers, one of which runs in a cistern containing the oll, in such a manner that
by the action of the two rollers the wool is apread in a thin giver or sheet, and the oil taken up by the lower roller is communicated uniformly to all the tiber.
47,428.-Universal Chuck.-Wm. Haskell King, Troy, N. Y.:
I claim a concentric or other chuck prorided with one or more
laterally adjustable plates, substhntiall as herein ghow and de-
scribed, fror the purpose of converting a concentric chuck into an as set forth.

This invention relates to a new and improved cluck for la thes, by Which the eccentric and concentric chucks are combined and the chuck rendered capable of being. adjusted to sult any kind of work to be operated uponin the lathe)
47,429.-Hanging and Latching Farm Gates.-Ira KinI claim, First, The arrangement and comblnation or the adustapost, as hereln described, and tor the purposes set forth.
second, Ialso claim the construction and combination of the up
 Third, I also claim the construction and combination of the self-
acting prop, , and staple, E, as hercin described, and for the pur-
pose set forth. 47,430.-Jewel Case.-G. F. Kolb, Philadelphia, Pa.:
 porthon. A, be apperportion
the wbole being constructed
the purpose hereln set forth.
47,4 31.-Mctallic Skelcton Hat Frame.-Albert Komp, New York City
I claim fornully the frame for a hat bods ot hoop-skirt aprink wire,
by forimg two toop, and by connecting tile same with thre



47,432.-Fountaln Pen.-R. J. LaMothe, New York City:
Ing claim, Filst, The spring ink-convegor, formed as a troush, pasg-
torough an opening near the pen, in the manner and for the
 47,433.-Washing Machine.-Andi'ew F. Lapham, New York City:
First, I clalm the spring, $M$, combined and arranged relatively to
the rocking bax, $D$, and bed, $A$, or its equivalent, substantially in

 47,434-Apparatus for Inhaling Vapors.-A. P. Lighthill, Boston. Mass.: 47,435.-Churn.-John B. Lindsay Davenport, Iowa :
c:aim, frst, Arming the blades of the dasher of the or inary
charn with leaves set vertically upon their upper faces, substantialSy acond, The combination of the twlisted shank of the dasher with
S dasher constructed of vertical and horizontal leaves and blades, ubstantlally as deeci lbed.
[The objectof this invention is to produce ta churn which shall ombinethe simplicity and convenience of form of those in common use, wilh cheapiess or constructionals lucreased capachy for successf uliv doing its work, and it consts la arming the blades of the dasher with leaves of metal or other suitable material, set at right angles to them, add also in combin ng therewith the screw shank of
the dasher.] 47,436.-Gear-cutling Rnles.-C. B. Long, Worcester,



47,437.-Hay Spreader.--Dav d Lyman, Middlefield, Conn.:
First, iclaim in combination with the teeth for scattering the hay
of a Prin atachment
ward

 Turd, In hay-making or spreadong machines in milch levers are
used hav ng an upanddown and back. and.forth motion, I claim the 7,438.-Photographic Name Plate.-James E. Mackerley, Paint, Ohlo
I clajm as an improved article of manufacture, an adjustable pho-
I also claim the employment, in comblnation with the said name
plate, of the movable letters or cards, substantially as and for the plate, of the movab
purpose set forth.
[This invention relates to a novel device to be used by plotograph era, the object of which is to secure, in addition to the photographing of the sitting person or of a plicture or view, and upon one and the same negative plate, the full or any des
47,439-Cultivator.-Roswell Marsh, Steubenville, Ohio: orks and the clearer, substantially as degcribed and for the purpose etiorth.
7,440.-Railrosd Car Brake.-A. F. McCrone, Ellicott's
Mills, Md.: Mills, Md.:
 to rotate the , inions to whose sharts are attached the crosshcass
Which connect by sutable rods and levers with the rubber bars, the
Whole doscribed arrangement belng constructed aud operated sub-
47,441.-0il Press.-Wm. V. McKenzie, Jersey City, claim, Ars


 combination with the movable sides of a press, substantially as spe
ciffed so that said branch pipes retain suthicient spring to allow on
the motion of the sides of the press boxes.
47,442.-Beer Faucet.-John Miller, Buffalo, N. Y.: claim the combination wlth the plunger, C, of the valve nozzle,
Fidicharge nozzle, D, opetatlog for the purpuses and In the man-
ner described.
47,443.-Hot-air Furnace.-Joseph A. Miller, New York Claity:
 fiame and heated gaseos products of combustion mayy circuate
through interstices between the said lumps or pleces, substantlally
as hereln specified. so hereln specifed.
Second the arrangement of the horizontal fue, $\mathbf{C}$, drop flue, I,
forward and backwaric circuiation pipe fue, J, in combination with each other and wwith the cold air chamber, H, tube sheets, D D, w, ar
tubes $G$, and alr-distributing clamber, E, substantially a herein
specifed.

47,444.-Oil. Ejector.-Geo. E. Mills, New Yurk City : samebeln, supported on 3 perrugorated metal for tubing oil wells, the substantially ashercin deacribed.
I claim the tube, C Co, put together in sections, and secured Ly
screws in sockets, on the air pipe, E, so that the point omes in contact with the fuld, may be adjusted in hlght, as an
47,445. -Washing Machine.-Jurvis T. Mudge, Cleve-
First, I claym the plunger, C. moving in a vertical plane upon the
pivet or hinges ce, and operated bv a sy stem of levers, substantially
as herein described.
Second, I caim the use of the tubes, C', in connection with the
plunger, C , oprevent the
to the ther from overion
47,446.-Ratchet Brace.-L. H. Olmstead, Newark, N. J.:
claim, Arst, The combination of the frame, B, and handle, $, ~ s, ~ o f ~$ the ratchet brace, constructed and arranged substantially as se
forth.
I claim making the main splndle of a ratchet brace, with a part of


47,447.-Manual Power.-I. E. Overpeck, Overpeck' Station, Obio
I claim the arrangement of the connecting rods, $c$, at an angle
to a vertical lline drawn through the ceuter of the crank shaft on


47,448.-Chimney.-C. C. Phelps, Janesville, Wis. I claim the construction of chimners, of cast ironor its. equiva
ent, in sections substantially as described and for the purpose spe clfed.
47,449--Shingle Sawing Machinc.-C. L. Pierce, Buf
falo, N. Y.:
 to prevent the block trom pinching or binding the saw, when con
structed and operating substantially as set fortli. 7,450.-Bread Cutter.-John T. Plass, New York City In claim the knife, D, and bar, E, in combination with the auto
matically mo ving gage, J, all arange to operate in the manner
substantially as and for the purpose spectiod.
This invention relates to as device for cutting or sllicing bread, meat, vegetables, etc .. for family or tablo use, and it consists in the employment of a knife and gage, arranged with or applied to iu box co as to opcrate lo a very efflecent manner, for the purpose speci-

47,451.-Coal-oil Lamp.-A. H. Platt, Yellow Springs, Ohio
 tantienty as and for I also claim the comblnation of the garing open base, A, perf ora-
ted partition B, pert orated cap, $\mathbf{C}$, and deep fame 'opening, $\mathbf{d}$, arranged and operating together, substantlally as and for the purpose
ferein set forth. 47,452.-Pump.-Alex. F. Porter, Phliadelphia, Pa.:
 as hrreln described, and adapting ihe shme to the raising of oil or
other liquids from deep wells, as set forth and explained.
I also claim fastening and supporting or securing a pump in a deep well, by accurately fitting it to the bore of sald well and resting
it upon legs or ourer supports, at the bot tom of the well, through
which leas or support the liquid is irawn into the pump, thus rendering the pump frm and steady, preventing ripramp, hus the
opening of the joints, and other injurlous consequences arising from instability, substantially a herein described and represente $\delta$. 7,453.-Balanced Slide Valve.-James Rankin,Detroit,
 lon with the piston, $H$, and sid de valve, B, icon
log subsiantially and for the purpose set forth.
[The object of this invention is to balance the pressure of the steam on the back of a slide valve in such a manner that the same work equally free under a pressure of a hundred pounds or more to the square inch as it docs in the open atmosphere. This object is ob. cained br combining with the valve a piston, through a serics of in ervening levers, rockers and links, in such a manner that the upward pressure of the steam on the piston counter balances the ectly baianced. Patentedin this country and in Europe through ect Scientific American Patent Arency.]
47,454.-Printing Press.-Henry Redlich, Chicago, Ill.
 Ger wooden se
47,455.-Car Coupling.-John H. Reed, New Haven, Conn.:
I clainn the combination of the bar, B B , with the lever. E E', and
catch, b, when constructed, arranged and
dited to produce the re catch, $b$, when constructed, arranged and fited to produce the re-
quired result, sibstantill 1 as heren set forth and de cribell. Second, I claim the combination of the bar, B B, with the levers,
 ing pin, c, and link, F, when constructed and fitted for use, su
stantially as herein described
Fourth, I claim the comblinatlon of the lock lever, , with the bar B B, when combined. and made to operate substantially as herel desciribed. claim the combination of the draw head with the link, $F$,
Fifth, constructed a and fited for use, sabstantially as herein de scribed. 1 claim the combnation of the link, $t$, With the pedal, g
Sixth,
when Atted to prevent coipling, substantially, as hercin described. 47,4 56. - Horse Power. - J. W yatt Reid, New York City
claim the combination of the master wheel, F, arms, a a, sta
 horizontal shafts,
herein specifed.
IThis invention consists in constructing or arranging the severa rom different shafts such a manner that power may be take nery driven with a greater or less' application of power, as circum stances may require. 1
47,457.-Manufacture of Hard Rubber Articles.-George amuel Rice, New York City
I clajm as a new article of manufacture, Firat, Watch cases or
or ore set forth.
Se ond. In vulcanite watch cases or lockets. I claim the method of
securing thic binge, substantially as dtscribed .
 holding the glass, substantially as set forthm, for the instr thas and
Fourh, The method of ecuring hard rubber shank to the laru
rubber besel, substantlaily as described Fith In combination with ves vicenite watch ceses or lockets, it
clatm the use of varnishes, in the manner and for the purpose set
orth 47,458.-EFxploding Torpedoes in Artesian Wells.-Ed ward A. L. Roberts, New York City


47,459.-Vibrating Piston Enginc.-John B. Root, New

 Scond, So arranging the connections between the said vibrating
sistons and the crank, that each pist on, though being on ly sing le pistons and the crank, that each pist on, theogh being only sing le
acting, may act upon tbe rank during nore than balfor cuch re vo
lition of the later, substantialy as nerein described
偶cribey with a separate and independent connection with cach
 n combination with mortlise and
47,460.-Coffee Settler.-Wm. F. Rossman, Hudson,
N. Y.:
First, Inalm the hollow cone, A, $w$ th open base, having funnel
 or upper margin of funnel, B, and for the purpose described. 7,461.-Street-sweeping Machine.-Daniel Sargent
New York Citty:
i claim the adjustable scoop, E , and box, I , in combination wit
 rating
set forth
[An engraning and full description of thls invention have beenpub ished in the Scientific american.]
47,462.-Adju table Tension Device for Sewing-machine Shuttle.-Frederika Schenkl, Boston, Mass., ad-
ministratrix of the estate of John P. Schenkl, deceased
I c'alm the arrangement and combination of mechanlsm herein
descibed. when maue to operate substantially in the manner and
47,463.-Ships of War.-Charles Slater, Brooklyn, N. Y.



ThIrd, The scutting augurs, I, applied in oombination with the
horizontal shait. I, Ind a adoustable geer, p2, cobatantiality as and for
the purpose hereln slow and descibed. the purpose hereln shown and described
47,464.- Machine for Attaching Revenue Stamps.-Robrst I claim the rack bar, F, and gate, D, with feed rollers, G G), and subjecled tothe action or a welkht, or whring. In combination
with an automatic stop, $\mathbf{c}$, and plunger, H , it constructed and op.



 Fouth. The rollern, $G$ g arranged in the longitudingil ellifing gate
D, and
piuneret
 stantially as and for the purpose described.
[an engraving and full description of thls machine have been pubilshed in the Scientific american.]
47,465.-Barrel-rolling Device.-Henry W. Stephenson, Cincinnati, Ohio :
I cinim the frames. A A crossed and pivote. at c, in combination
ith the disks, B B, the whole constructed and arranced soas to be capable of being applled to a barrel, substantially as and forthe pur-
pose described. [Thls invention relates to a ncw and useful device for rolling barrels, designed more espectally for the use of porters, laborers at railroad freight depots, etc., in order to fac lisate the removal of barrels into and out from houses, freight depots, etc]
47,466.-Coffee Pot.-Jnmes H. Swing, Cleveland, Ohio ; First, I claim the cup, d, and flange, b, in combinallon with the
rim , annular chamber and section, A, as and ior the purpose set Second, I claim the disk, h, strainer, f, and filter, B, in comblna-
tion with the section, $A$, and cover, $D$, as and for the purpose liercin
described. 47,467.-Forge.-Charles N. Taylorand Elijah J. Holınes, We claikn the lmproved 1orge lierein described with its removahle
plates, for the purpose of adopting it to the size and shape of the ar-
ticle to be heated.
47,408.-Corn Planter.-James §C. Thomas, Redpoint,
Md.: I claim, First, The forked seed box, B, in combination with the
Wheel A, and the hollow tooth, C, when constructed substantally Second, The purposes specitled. the several parts are constructed and arranged substantialiy as and
for the purpose hereln set forth
47,469.-Reclining Chair.-Hopkins Thompson, New
York City : I claim in combination with a clamp fastening on the stationary movable parts of a iointed recluming ehair, sulvstandially of the sribed, whereby the movible parts may be clamped and bract
rifily to the stationary parts, substantially as set forth. 47,470.-Lock.-BenJ. M. VarDerkeer, Clyde, N. Y.:
 47,471.-Pulley Block.-S. Van Hennick and T. Allen, We claim the combination in a single pulley block of the small sheaves, a a, for carrying the rope or chain, $B$, to which the veight
is a thached, and the larger slicave, a, at:ached rigidy to the trit two and carrying the rope or chain, d, to which the power fs ap
pliee, all the parts being constructed and arranged to operate us
herein spected berein sjecifed.
[Thls invention consists in providing a pulley block with an extra or supplemental sheave of larger diameter than the others, and propower is gained in operating the blocks, or in raising weights thereby.]
47,472.-Feed Rack.-John M. Van Nest, Claytown, I claima: che combination ot the slld ling trough with the granary,
he latter being provided with a spout or opeuin to di.charge the Thelaim the combinat on ot the slid ing trough, with the granary,
the latter being provided with a spout or openir to discliange the
feed into the trough, which moves beneath it, substantlally as de
scribed. 47.473. - Vehicle.- Zalmon B. Wakeman, Rockford, Ill.: bearing, i, having an eye or aperture lncreasing in size from fron
to back, and eunfloyed to recelve and fupport the end of the brace

 tlon of the tonguc.
Third, Icialm the tonguc, $L$, employed in combination with the
spring, E , rod, E, tongue, C , and nut. I , substantially as herein set Fourth, I claim the adjustable springs, K KK, adaptend to operate in
conn cetion with the knuckles, L I, in the manner and for the pur Fifth, I claim the sprinp or springs, J, wrap ped around the tongue
od, aud with their euds secured under the tongue bounus, and the orward axle or sand board adapted for adjustinent in any manner 47,474.-Stove.-George W. Walker, Boston, Mass.
 ner and for the purpose subst antialy as described. Also the coastructlon or a stove, with fues formed of the materia
of the outside of the stove body, and of the sheetswlthln the body, to heat a hollow extension of the base th 17,475.-Rolling Mill.-Edwin Wassell. Pittsburgh, Pa. r claim the use of a fanged guide roller. placed in front of a pai
of purpose of causing the ir on bar to silde side ways when It drops out
pom one pasa between the rolls to the proper position in front or om one pasa between the roils to the proper position in front of
the next edooing pass, substantianty as escribed
The use of a The use of a gulde holder, consisting of the combination of a cylin
der or box, d, rod. c, sping, i, and presure screw f, constructed 47,476. - Apparatu for Separating Ores.-James Wat 7,476.-Apparatu for
son. Cliff Mine, Mich.
I claim, First, The hopper, A, provided with the deflecting board,
, chute or trourh, D, and the opening, a, at its bottom, substan: Sccosd, The cliamberpose set forth.
Soll the hopper, communicating with
Se pipe or ube, E. provided with one or more plugs or faucta the pipe or tube, E. provided with one or more plugs or faucetse, an


47,477.-India-rubber Packing Former.-Wm. Webster, I claim the cylindrical packing former, A, for preparing India
ubber annular packings for sealiging rult cank In thie manner de
 47,478.-Machine for Making Lanterns.-Wm. Westlake, Chicago, Ill.:


47,479- Train Way for Ferry Boats.- Norman W. Wheeler, Brooklyn. N. Y.:
 curre,
fubstantially in the manner and for the purpose herein set Second, I claim in connection with the aivore the employment of
 47,480 -Tubular Condenser.-Norman W. Wheeler, Brooklyn, N. Y.
I claim the imp ovement in condensers and analagous tubular
constructios heredn deseribect-to
pait

 lyn, N. Y.:

 hooks, inks and stanchions. constructed and arranged to operate
together substantialiy in the manner and forthe purposes described. 47,482.-Landing Platrorm for Steamboats and other


 forth 483 .-Botule Stopper.-E. R. Wllbur, New York City : Ic claim the botle stopper
substantially
as described.
47,484.- Raillway Chairs.-J. E. Willams, Xenia, Ohio

 In combination with

## 47,485.-Shield for Breaststraps.-Henry F. Wilson,

 Elyria, OhioI crainn the reversed hooks having theirupper ends covered so asto
correespund to the inner circle of tice ring for the purpose of giving

47,486.-Plow.-T. Winslow, Cleveland, Ohio:


47,487.-Braiding Machine for covering Skirt and other
Wires.-Oliver R. Burnham, (assignor to J. I. and Wires.-Oliver R. Burnham, (assignor to J. I. and
J. O. West) New York City: First, O. West) New York City:








,488.-Knitting Machine Needles.-Augustus C. Carey,
Lynn, Masss,, assignor to himself and Geo. S. Sulliran, Boston, Mass.

 ing a narror or silm nee.
47,489.-Heating and Fuel Device.-Daniel C. Colby and Thomas I. Harris), Claremont, N. H.:

 ${ }_{47,490}$ forth. Cotton Press.-Geo. C. Davies, (assignor to Ohio Erolin Company,) Dayton, Ohio

 be cupable of being amung to one side for Alling or charging the bal
ing tinuk in the manner descried.
47,491.-Game Boards.-James T. Edson, Stowe, Mass. assignor to himself and Geo. L. Crosby, Berlin
I claist.i. combination of the groove, B, and the passare, b, lead
ng thererrom, with the game board, $A$, and the receiver, 47,492.-Valve Gear for Steam Engines.-Chapman E Gage, (assignor to Columbia Drew,) Winona Slazim the sliding valve rods, 14 14, constitutung sup ports aps coming in contact wlth the shoolders, , I3 and thus effect the alter-
nate opening and closing of the proper induction and exhaust patts. 47,493.-Lamp.-Alonzo Hicks, Factoryville, N. Y. assig
Clity:
clum
clum the combination of the daphragm, d, defectors, 11 ,
guard, f, and wick tube, c , in the maner an. for the purposes
 Stamps.-Horace Holt, (assignor to W. W. Secombe, New York city:
stactaim the within described composition
47,495.-Horse-shoes and Calks.-Charles H. Johnson (assignor to himself and Charles E. Woodman), Boston, Mass.:
 47,496.-Composition for Lining Oil Barrels.-Henry and Emile Granier, Paris, France:
 47,497. - Process for Treating Auriferous Ores-W. Adolf Brooklyn, N. Y: himse and Henry Jackson), I claim the use, in treating auriferous ores, and particularly py-
rites contanno,
mander [This Inventio
ypochlorous acid in extracting gold from auriferous ores, and par ticularly from pyrites contalning gold.]
47,498.-Feed Bag.- Henry Pennie and Chnnock (asCity, and reassigned by L. Bissell to said Pennie and Chinnock:
We claim a reed bat, or portable crib, fora horse or other animal

 moveronts
47,499.-Feed Water Heater.- Robert Poole (assignor
to himself and German H. Hunt), Baltimore, Md.: tank, A, with regard to the inlet and cutlet water pipes conncteed
 escape of the steam thro
tially as herein described.
47,500.-Fastening for Harness.-Josiah Shepard, New Butler, New York City:

 crae cenererross pie
tially as described.
47,501.-Floating Dock.-Edward Turner (assignor to



 47,502.-Horse-shoe.-Alexander Tyrrell (assignor to himself and Kimball Ferrin), Batavla, N. Y.: I claim a Lorsesshoe, constructed as described, w.tht the recesses,
a
spectiliedic at any point between the beel and toe, for the purposes
47,503.-Capsules for Preventing the Soiling of Fire-arms.-F. L. M. Dorvault, Paris, France:

47,504.-Medicated Candy.-Lazarus Morgenthau,Mann-
hiem, Baden:

 47,505. - Mode of Disintegrating Vegetable Substances
for Paper Pulp.-Zephirin Gaspard, Alozandre Na-
Pierre Amable Henri Matussievare, Paris, France:
 47,506.-Manufa

Ebro - Manufacture of Iron and Steel.-Geo. Parry,
Ebro
Nov. 18, 1861 : Works, Eng. Patented in England


## REISSUES.

1,940.-Enema Syringe-Hamilton D. Lockwood,
Charlestown, Mass., assignee of C. H. \& H. E. Da
Vidson. Patented March 31.1857
 ooperite sulustautially as described.
1,941-Fording Bed Bottom.-Frederick C. Payne, New

 eachother, susstantially as heiein deschiou with the potes Second, The Slociss, V
 ,942.- Hot Air Engine.- Stephen Wilcox, Jr., West-
crly, R. I. Patented Nov. 20, 1860:
Ind gases are heated by combustion within the ev inder or in ha mber lead ng thereto. the use of a a cegenerator, F , substantantially as








 nor iconducting sumstance gilling the inine ervening space, substantially
asand for the purpose herein get forth.




ATENTS
aranted
FOR SEVENTEEN YEARS.
MUNN de COIIPANY,
In connection with the publication o
the SCIENTIFICAMERICAN, have act ed as Solicitors and Attorneys for procuring "Letters Patent" for nov inventions in the United States and in all foreign countries durlng the applications made for patentain the United States are solicited throuphthls ofice; cake in foreign ; taken in fcreign countres are procured through the same source. It ls almost needless to add that, after seemicon years' experience in pre paring specifcations an. Lrawings for the UnitedstatesPatent Omce versant with the preparation of applications in the best manner, and the trijassctlon of all business before the Patent Office; but they take pleasure in presenting the annexed testimonials from the three last ex-Commissioners of Patents.
Messrs. Mons \& co.:-I take pleasure in stating that, while I held the ottice of Commissioner of Patents, yore than one-pourti of have no doubt that the public confidence thus indlcated has been cully deserved, as I have alwaysobserved in all sour intercourse with the office, a marked degree ot promptness, skill, and idelity to the interests ot your employers. Yours very truly,
Judge Mason was succeeded by that eminent patiot and masor. Hon. Joseph Holt, whose administration of the Patent Office was so distinguished that, upon the death of Gov. Brown, he was appeinted to the office of Postmaster-General of the United States. Soon after entering upon his new duties, in March, 1859, he addressed to us the following very cratifying letter.
Mirssers. NoNN \& Co:- It affords me much pleasure to bear testi
mony to the able and eficlent manner in which jou discharged your
c:uctes as solicitors of Patents, while I had the honor of holuing the p:ict of Commissl oner. Your business was very large, and you suas
landed cand I doubt not justly deservel) the repuation of energy
marked ability, and uncompromising fidelity in performing your pro fessional engagements.

Hon. Wm. D. Bishop. late Member of Congress from Connectaca
nitceeded Mr. Holt as Commissioner of Patents. Upon resigning the

 as eminently quallitici to veriorin tlice duties of Patent Attorneys wit
skill and accuract.
Very respectully, your obedient gervant
WM.

## the examination uf inventions

Persons havini conceived an idea which they think maybe patent able, are advised to make a sketch or model of their invention, an submitit to us, with a rull description, for advice. The pointe of with the facts, is promptly sent, free of charge. Iddress MUNN 20, No. 37 Park Row, New York.
As an evidence of the confidence reposed in their Agency by in that thes have acted as asents for more than TIVENTY THOUSAND inventors In fact, the publlshers of thls paper have becomeidentifled with the whole brotherhood of inventors and patentees, at home and abroad. Thousands o inventors for whom theyhave taken out pat ents have addressed to them most fattering testimonials for the ser vices rendered them; and the wealth which has inured to the individ illustrated in the SCIENTIFIC ASIERICAN, would amount to many millions ot dollarsI Messrs. MUNN \& CO. would state that they never had a more efficient corps of Draughtumen and Speclfoation
Writers than those employed at present in their extensive offices, and that they are prepared to atte ind to patent business of all kinds in the quickest time and on the most :iberal terms.
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Persons who are about purchasing patent property, or patentees Who are about erecting extensive works for manufacturing under年位 patents, should have .thelr claims examined carefu!!g by com ing patent, oefore making large investments. Writen opinions on the validity of patents, after careful examination into the facts, can be had for a reasonable remuneration. The price for such services is siwasssettled uponin advance, after knowiag the nature of the in and being informed of the points on which an oplainn is Bo liclted. For fu
The Patent Laws, enacted byCongress on the 2d of March, 1861 are ow in full to ce, and prove to be
are concerned in new inventions.
The law abollshes discrimination in fecsrequired of forergners, ex he United States-thng allowing Austrian, French, Belgian, English Russian, Spanlsh and all other foreigners, except the Canadiane, to enloy all the privileges of our patent system (except in cases of do gns) on the above terms. Freigners cianat secure theirinvention fflling a caveat ; to citizens only is thls privilege accorded

## catrats.

