Very nicely and skillfully calculated were his maneuvres. Traversing the Thames at an exceedingly low elevation, the balloon just grounded upon the shore, within a dozen yards of the water.

"Distinctly to understand the tierce excitement of the next three minutes, it should be borne in mind that the fire was still roaring merrily away; that the machinery, so admirable for its special purposes, would have caused sad havoc had there been anything like a general upset; and that at this particular moment six men could exert very little control over a balloon capable of containing 460,000 cubic feet of air.

"Touching the shore, the balloon tore away, the big canvas flapping, the bright fire burning; while right in front rose a stone embankment. The shocks were rough, and had the travelers been novices in this particular method of locomotion we might now have some awkward casualties to relate. Just betore each bump, however, the men made a little leap, and thus balked its force, as a cricketer to catch a ball draws back his hand instead of protruding it. Still, with all these precautions, it seemed half an hour-and there was a strong inclination to cheer when the threatening stones were passed. On now into a potato-field; another rise; a wild tendency to leap at a chimney; a strong 'exhibition' of restraint in the shape of a hundred sensible Englishmen tugging away at the ropes, and obeying the orders that were given -- and the whole thing was over."

RECENT AMERICAN PATENTS.

The following are some of the most important improvements for which Letters Patent were issued from the United States Patent Office last week ; the claims may be found in the official list :-

Machine for milking Cows .- Most of the devices heretofore invented for milking cows involve the general idea or principle of suction. Rubber gloves are stretched upon the animal's teats, and suction is produced by working a small pump. In the present improvement all suction is avoided, and by an ingenious arrangement of mechanism each teat is seized and squeezed, first at the neck of the teat, then in the middle, and lastly, at the extremity, thus closely imitating the operation of hand-milking. II. V. Belding, of Oppenheim, Fulton county, N. Y., is the inventor.

Round and Half-round Files.-The ordinary round and half-round files are constructed by first rolling or swaging the steel in the desired form, technically termed blanks, and these blanks are then cut in order to form the file. The flat files may be constructed in this way in a perfect manner, but round and halfround files cannot be perfectly cut, as the cutting tool destroys the rotundity of the surface, which, instead of being round or half-round, is of polygonal form. By this improvement these files can be made with a perfect curved surface, either circular or semicircular in its transverse section. To effect this the blanks are constructed out of sheet-steel plates of any desired dimensions, according to the size of file required, and said blanks are cut either manually or by a machine, in the same way as the ordinary flat or tri-lateral files. These plates are then heated and bent so as to form a circle or semicircle in their transverse section, and then tempered. The files thus constructed may remain in shell form or in cases where weight and solidity are required, they may be filled with wood or soft metal, a tang to receive a handle being attached to one end of them. By this arrangement a file of the kind specified is obtained with a perfect curved surface, and consequently one which will operate much more perfectly than those constructed in the ordinary way. Besides a saving in metal is effected as well as in the cost of manufacture. J. Nelson Jacobs, of Worcester, Mass., is the inventor.

Breech-loading Fire-arm.-This invention relates to an improvement in that class of breech-loading fire-arms in which the breech is closed by a breech block sliding transversely across the bore of the barrel. The invention consists in the employment of a a valve and screw in combination with the transversely sliding breech-block in such a manner that when the latter is in position, by turning the screw the valve is set up tight against the end of the barrel and a perfect joint between the breech block and bar-

rel is effected; the invention consists, also, in a notched socket in the inner surface of the breechblock in combination with a flanged expansion washer, the stem of which fits into said notched socket and can be locked therein by a suitable bolt or other equivalent device, in such a manner that said flanged expansion washer will move in and out with the breech-block, requiring no separate handling, and when said washer is worn out it can be easily removed and replaced without loss of time. Alfred Krupp, of Essen, Prussia, is the inventor. For further information address Thos. Prosser, No. 28 Platt street, New York.

Improved Cigaretto.-Cigarettes, as usually made, are formed by wrapping a small quantity of fine-cut tobacco in a sheet or piece of paper and folding in the ends. In using these cigarettes it is well known that the tobacco is constantly escaping into the mouth and that an unpleasant odor is caused by the burning paper. This invention obviates both these difficulties; first, the paper is prepared with a view to obviate this disagreeable odor and taste of the paper; and secondly, the end that is inserted in the mouth is so formed that the tobacco cannot escape, and yet a free draught is insured; and to effect this, the invention consists in the employment or use of a mouth-piece made by coiling a short piece or strip of stout naper or thin pasteboard, and inserting the coil in the end designed for the mouth, or, more properly speaking, by winding and pasting the paper tube around this mouth-piece which gives the size to the cigaretto. This mouth-piece forms a firm hold for the teeth and is of sufficient length to prevent the fire reaching the lips when the cigaretto is nearly The cigarettos are about the length of consumed. an ordinary cigar, and nearly a half-inch in diameter.

We have tried the article and find it to be a very good thing. The filling of those we have used was of the finest Turkish tobacco, thus giving the benefit of the best tobacco in the convenient shape of a cigar. and withal we consider the cigaretto a very good, convenient, and economical article for smoking. The inventor of the above is E. Berg, of New York City, and the patent bears date August 2, 1864, and further particulars may be had of Messrs. Berg & Co., man lacturers, 133 Chatham street, New York city.

Zopissa.

Is a composition invented by Mr. Szerelmy of London, which has of late acquired quite a reputation. on account of the manifold uses to which it can be applied. Among specimens that have been exhibited, are pieces of tile, chalk gypsum and soapstone, coated with the zopissa composition. Articles of wood and iron which had been exposed for over a year to the influences of the London atmosphere and to sea wa ter, were found not to have been affected by either rust or decay. A cheap and artistic imitation of leather has been made out of cotton tissue, impregnated with the zopissa, and well dyed, imitating the various colors and shades of water-proof animal leather.

GRAFTING ANIMALS.—The Intellectual Observer savs:-" Dr. Paul Bert has published a work on the curious subject of animal grafts. He succeeded in making Siamese twins of a couple of rats, and in many other monstrosities. He exclaims, 'it is a surprising spectacle to see a paw cut from one rat, live, grow, finish its ossification, and regenerate its nerves, under the skin of another, and when we plant a plume of feathers under the skin of a dog, what a miracle to see the interrupted vital phenomena resume their course, and the fragment of a bird receive nourishment from the blood of a mammal."

SALMON eggs have been successfully transported from England to Australia, although the vovage occupied more than three months. Two or three ova boxes were kept at Melbourne, and others were sent to Tasmania. On being removed to the hatching boxes in the ponds, a large portion of the ova was found to be dead, but those that remained alive amounted to many thousands, and are amply sufficient, if they should all continue to thrive and become living fish, to insure the complete success of the experiment, and stock the waters of Australia with the most delicious known table-fish.



SSUED FROM THE UNITED STATES PATENT-OFFICE FOR THE WEEK ENDING AUGUST 9, 1864. Reported Officially for the Sciencia: Ameri

M Pamphlets containing the Patent Laws and full particulars of the mode of applying for Letters Patent, specifying size of model required and much other information useful to inventors, may be had gratis by addressing MUNN & CO., Publishers of the SCIENTIFIC AMERICAN, New York.

43,752.—Knife and Scissors Sharpener.—William H. Al-corn, New York City : I claim the use of a file, C, secured by sleeves, D, or their equiva-lents to a horizontally swinging lever, B, in combination with guide strips, d, or notch, e, to retain the kair for scissors to be sharpened substantially in the manner and for the purpose shown and de-scribed.

(This invention consists in the employment of a three or more ided file, attached to a horizontally-swinging lever by means of sheeves, so that it can be readily removed and turned to bring a fre side into use, in combination with a suitable socket to hold a kni or a pair of scissors in such a manner that when an oscillating motion is imparted to the lever, and the knife or scissors are placed into sharpen the same in a simple and casy manner.]

43,753.—Mode of locking Railroad Car-seats.—David H. Baker, Jersey City, N. J.: I claim a movable locking bar extending along the car, the dis-tance of sweral seats, and ditted with pins, hooks or slots, substan-tially as specified, in combination with the movable backs of the seats and the locking device whereby said locks can be all locked or unlocked simultaneously, by moving the said bar as set forth. -Milking Machine .--- H. V. Belding, Oppenheim, 43.754.-

3,754.—MILETING ALCOLOGY AND A COLOGY AND A

G, G', substantially as notice as in the winged shaft, E, with the set forth. I also claim the combination of the winged shaft, E, with the pressers (G G', substantially in the manner and for the purpose herein shown and described. I also claim the springs, H I, in combination with the pressers' G G', substantially as herein set forth, I also claim the subjusting servery rolds. I, in combination with the plates, L L, substantially as and for the purpose herein shown and

describdd. I also claim the arrangement of the pan, K, with the pressers, G G', and plates, L L', as herein shown and described.

43,755.—Pump.—Wm. A. Bemis, Lyndon Center, Vt. :: Iolam a pump worlded with two plungers, the rods, E E', of which are connected by a lever, G, having rods, H H, and levers, 11, connected to it and all arranged with a plautorm, F, to operate sub-stantially in the manner as and for the purpose set forth, I further claim in combination herewith the packing, e, arranged and applied to the plungers, D D', to operate in the manner de-scribed

[This invention relates to a new and improved pump, designed for general use, and it consists in the employment or use of plungers or pistons, the rods of which are connected by a lever having other levers applied to them and all arranged with a platform in such a manner that the person in operating the pump may ap-ply his power to it in the most favorable and advantageous manner. ngers or pistons are also packed in such a manner as to ensure the perfect working of the same with but little friction.]

43,756. Bee-hive. T. F. Bingham, Gowanda, N. Y.: 1 claim, first, A bee-live constructed with triple walls, a b c, with spaces, d d, between them, substantially us and for the purpose specified.

specified. Second, The bee-entrance, composed of two parts, ff., both barts being provided with openings or slots and the inner one, i, madd adjustable, ibstantiall as and for the purpose specified. Third, The combinations combined on the ionizontal bars, st, and pendant bars, u, all arranged and combined as and for the purpose specified.

Fourth, Therim, A, in combination with the cover, B, arranged and applied as and for the pur ose specified. This invention has for its object the obtaining of a bec-hive which

will effectually protect the bees during the winter scason, and the providing of the same with an entrance well adapted for it and which will be capable of being adjusted to suit the various circumstances required in bee-culture. The invention also has for its object the constructing of the comb-frames in such a manner that they will econonomize in space and at the same time effectually support combs; the invention has further for its object the obtaining an extension cap to the hive so arranged that supplemental spare, noney-boxes may be added or applied when necessary, and also employment or use of a box and cap for the proper feeding of the eeswhen needed.]

bees when needed.]
43,757.—Valve Gear for Steam Engines.—I. W. Bowers, Cincinnati, Ohio. Ante-dated Jan. 27, 1804 :
I claim, fast, Operating the valve, H, by the lifters or their equiva-lents when they are arranged within the valve-chamber as snown and for the purpose described.
Becond, The combination of the valves, H, rock-shaft, m, and or the purpose set forth.
Third, The several devices in combination, by which the port or steam-valves and the exhaust or outlet valves are operated, when combin d substantially as described and for the purpose set forth.
Fourth, the combination of the forked-siding bar, L, with the vi-brating bar, K, and cam rod, D, when constructed and arranged, "Birth, The construction and arrangement of the connecting bar, g, and pails, r, with the crawks, m'm, when constructed substantial ly as described mind for the purpose set forth.
Yato Soap.—D, B. Chapman. Honedale. Mass.

43,758.—Soap.—D. B. Chapman, Hopedale, Mass.: I claim the compound soap made substantially as hereinbefore de-scribed.

43,759.—Automaton Dancer.—Isaac S. Clough, Brook-lyn, N. Y., and Vincent Fountain, Jr., North Shore,

1,759.—Automate lyn, N. Y., and Vincent Fountain, or., and N. Y.: Iclaim suspending the figure, A, from an clastic cord, B, stretched tweenuprights, C, over the sounding disk, E, attached to the plat-rm, D, so that the motion of the figure is produced by the swaying 'the cord and the contact of the feet of the figure with the bell or sk produces a musical sound.

(Thisinvention consists in suspending a figure with jointed limbs,

from anelastic cord stretched between uprights, over asuitable plat form in such a manner that by touching the cord with the finger the feet of the jointed figure are caused to touch the platform and if the taps on the cord are repeated in quick succession the figure begins to dance on the platform.

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43,760.—Composition for desulphurizing Coal.—Jos. H. Connelly, Wheeling, West Va.: I claim the use of desulphurizing agents such as common sait and lime in combination with petroleum or its products forced in the form of spray in a steam boiler, or other furnace substantially in the manner and for the purpose herein specified. [The object of this invention is to mix with the petroleum a certain desulphuring compressition which strong here it of stars

desulphurizing composition which when forced by a jet of steam into the furnance combines with the sulphur and destroys its quality to combine with the iron.]

43,761.—Ferrotype Card-mount.—John H. Daniels, Boston, Mass.:

ton, Mass.: I claim as a new astride of manufacture a plate or card mount, made of a single sheet of paper recessed for the reception of the card or plate and perforated so as to frame the same in the manner substantin by as herein set forth. I also clash - i the method herein described of cutting and receessing plate or card mounts at one operation.

43.762.—Elastic Stud or Button.—A. Eliaers. Boston. Mass.:

MASS.: I claim forming an elastic hollow socket with a projecting run or shoulder on its in side that fits into a corresponding groove on the outside of the article to be protected as described.

43,763.—Apparatus for Signaling.—Philip Howard Col-omb, Fulham, Kingdom of Great Britain: I claim, first the use for night signaling, of a light (or lights) shewn or exposed during varying points of time regulated as de-scribed.

scribed. Second, The use for day signaling, of an opaque or other clearly visible body (or bodies) shewn or exposed during varying periods of time regulated as described. Third, The use for the purposes described of a notched bar or other equivalent arrangement for enabling the levers or other connections whereby motion is imparted from the pins' projections, depressions, or holes, to be a djusted so as to be acted upon by the required sets of projections depressions or holes, or to be shown out of action as re-quired.

projections depressions or holes, or to be shown out of action as re-quired. Fourth, The employment of levers. or equivalent parts, adjustable endwise upon an angular or other bar, for the purpose of imparting the motion received from the projections, decressions or holes, so as to regulate the appearance and disappearance, or expansion and contraction or exchange of position or form, of the signaling ob-ject or objects. Fifth, The use of a drum, endless belt, chain, or equivalent arrange-ment, provided with projections, depressions or holes, and capable of being driven with a continuous motion for the purpose of regulating the appearance and disappearance, expansion and contraction or change of position, or form of figuresor objects used in signaling.

43,764.—Tuyere for Blast Furnaces.—William M. Ever-ett, Malden, N. Y. Ante-dated Feb. 4, 1864 : I claim, first, The combination and arrangement of the removable bottom, R. with the conneal portion of the twere, O, and the beveled pieces, S. substantially as and for the purposes set forth. Second, In the combination and arrangement of the adjustable slide, C, with the arm. D, and the arm E, and the set screw, J, sub-stantially as and for the purposes set forth.

43,765.—Machine for surface-sizing Fibrous Materials.-

43,765.—Machine for surface-sizing Fibrous Materials.— Wm. Fluzzard, Malden, Mass.: I claim, first, A revolving brush cylinder, D, or its equivalent, in connection with a partity submerged roller, C, and an adjustable roller or bar, E, arrange to operate in the manner substantially as and for the purpose herein set forth. Second, The shild or guard arranged and combined with the brush cylinder, or its equivalent, and with the roller or bar, E, to operate as and for the purpose described.

[This invention relates to a new and useful improvement in a elinery for applying glazing or size to fibrous materials, such as-ton wadding, etc.]

43,766.—Grain Separator.—Daniel Geiser, Waynesboro

43,766.—Grain Separator.—Danner Octsor, ..., ..., Pa.: Pa.: I claim, first, The combination of the stationary notched bars, D D, and reciprocating toothed bars. B B, constructed and operating substantially as and for the purposes herein shown and described. Second, The combination of the reciprocating toothed bars, B B, and toothed rock shaft, E e, constructed and operating as and for the purposes specified. Third, The swinging plate, G, composed of one or more parts and placed on the box or case, A, when used in connection with the toothed bars, B for the purpose st forth. Fourth, The metal screen, J, placed at the outer ends of the bars, D, when used in connection with the toothed bars, B for the pur-nose set forth.

D, when used in connection with the tootnew bars, b, for the par-pose set forth. Fifth, The reciprocating bar, O, provided with notched plates, j, and fitted in a box, N, having a perforated bottom, t, for the purpose of conveying the tailings into the elevator box, P, as set forth. [This invention relates to a new and improved machine for separ-

ating grain from straw, as the latter is delivered from a thrashing machine.]

43,767.—Miter Dove-tailing Machine.—-Franklin A. Gleason, New York City: I claim the construction and arrangement of the dovetail cutters, the V-cutter, s, the stops, P and r, the base from which to set the miter cutters, e, the oblique position of the cutter edges, the base, R, in combination with the adjustable bed-plates, G G', substantially as described

43,768.—Obtaining and transmitting Power.—James

43,768.—Obtaining and transmitting Power.—James Joseph Gorman, Cincinnati, Ohio:
Iclaim, first, The variable fulcrum, c c (c', in combination with the oscillating frame, B, carrying the weights, D D', and with the oscillating frame, B, carrying the weights, D D', and with the rolling weight, E, constructed and operating in the manner and for the purpose substantially as herein shown and described.
Second, The weights, g * gr's, arranged in combination with the rolling weight, E, constructed and operating rame, B, with weights, D D', all constructed and oscillating frame, B, with weights, D D', all constructed and operating in the manner and for the purpose substantially as set forth.
Third, The dog, I, spring, O, and rocker-arm, M, and cam, S, with the solilating frame, B, or its equivalent, and with the shaft, K, constructed and operating substantially as and for the purpose schemic difference. The manner and for the purpose substantially as described.
Four b, The spring, O, and rocks shaft, O, in combination with the oakel rol, P, eccentic wrist purpose substantially as described.
[The object of this invention is to produce power by a peculiar arrangement of weights and levers, and to avoid the dead centers in transmitting the power thus obtained by a peculiar arrangement of cranks and arms.]

cranks and arms.]

43,769.—Steam Generator.—Solomon Greenhalgh, New-ark, N. J.: I claim the trapezoidal steam chambers, F, arranged in combina-tion with the horizontal water tubes, A, vertical tubes, E, water backs, H, plates, I, and abutments, c d d', in the mannor and for the purpose substantially as herein shown and described.

(This invention relates to certain improvements in that class o a boilers which are used to generate steam for heating pur I n such boilers it is particularly desirable to obtain the steam as dry as possible, so that the same, in past ng through the heaters in the various parts of the building to b: heated, will de posit the smallest possible quantity of water.]

43,770.—Apparatus for forcing Water by Pneumatic Pressure.—John P. Gruber, New York City: I claim, first, In a fountain which is to be operated by the elastic pressure of condensed air, the arrangement berein described, that is

to say, a reservoir containing the water or other liquid to be operated upon so contrived that it may at pleasure be subjected to, or relieved from, the elastic pressure of condensed air, in combination with a valve so construce et and arranged that it chall automatically close when the pressure is applied and open when it is removed, substan-tially in the manner and for the purpose berein-before set forth. Second, In a fountain which is to be operated by the elastic force of connensed air, I claim so constructing the same that the valve through which the full is to be received into the reservoir shall be kept closed by the pressure of the air from within, and shall open automatically when that pressure is removed, substantially in the manner and for the purpose herein-before described. 43,771.-Hearth of a Cooking Stove.-George Himrod

43,771.—Hearth of a Cooking Stove.—George Himrod Chicago, Ill.:
Iclaim, first, Supporting the removable ton, B, upou the isolated supports, a, arranged and operating substantially as and for the pur-pores herein specified and shown.
Second, In combination with the above I claim the employment of the stops or projections, b, for the purposes specified.
43,772.—Pointing Wire for Pins.—Orin L. Hopson and Herman P. Brooks, Waterbury, Conn.: We claim, first, Pointing wires or rods by a revolving divided die that is pressed together, substantially as and for the purpose specified. Second, We claim the arrangement of the adjustable radial cams, revolving shatt, b, jaw, d, and ties, i, substantially as specified. Third, We claim the ring, f, and screw, g, in combination with the law d, and des, i, i for regulating the amount, said dies shall be al-lowed to open, as set torth.
43,773.—Machine for making Flour-sacks.—I. M. Hurd.

43.773.

3,773. Machine for making Flour-sacks.—J. M. Hurd, Auburn, N. Y.: I claim, ür-t, The two leaves, A and B, or their equivalents, sub-tantially as and for the purpose specified. Second, I claim the combination of the two leaves, A and B, with the lever, K, substantially as above specified.

43,774.—Apparatus for heating Glue.—Robert Jackman, New York City :

New YOFK UITY: I claim a glue-heating apparatus adapted to apply steam directly o the water in which the kettles are immersed and to supply a lib-ral quantity of distilled water when required, substantially in the nanner and for the purposes herein set forth.

manuer and for the purposes herein set forth. 44,775.—Construction of Round and Half-round Files.— J. Nelson Jacobs, Worcester, Mass.: I claim the process berein described of constructing round and half round files, to wit, by forming the blanks of flat metal plates, cutting the same, and then bending them in the round or balf round form.

43,776.—Device for cutting Tenons on Metallic Rods, etc.—C. Jhlson, Worcester. Mass.: I claim the combination of the cutter, eye, and gage, operating together, substantially in the manner and for the purpose described.

together, substantially in this manner and for the purpose described. 43,777.—Machine for dressing Weaver's Harness.—John and Joseph H. Kendrick, Providence, R. I.: We claim, first, The method, substantially asspecified, of dressing weaver's harnesses by the combination of a reciprocating carriage, H. upon which the hamess is strained, with brushes, G o, or their equivalents, revolving in the same direction, between which the harr ess to be dressed is male to travel, as herein described. Second, The mode of operation, sub-tantially as specified, by means of which the revolving brushes, G o, or other equivalent in struments for dressing the harnesse are made to have a motion rel-atively to each other and to the harness carriage, so as to act upon the harness only during its movement in one direction, as herein de-scribed.

-Machine for making Chains.-L. King, Cleve-43.778.

land, Ohio : I claim constructing a chain, of the form herein represented, from sungle rod or wire, by one continued process, by means of an au-somatic machime, constructed, arranged, and having all its parts operated substantially as described. a single tomati

43,779.—Bee-hive.—Joseph Lash, Mount Vernon, Territory of Nebraska:
 I claim, first, The ventilators, F F, in combination with the trough, E, substantially as shown and described.
 Second, The tube, C, constructed and used substantially as set forth, incombination with the ventilators and trough or trap.
 2780.

1 orth, in combination with the ventilators and trough or trap.
43,780.—Machine for loading Meta lic Cartridge Cases. —Charles H. Lavis, Philadelphia, Pa.: I claim cutting a groove, I, in the under face of the loading wheel, B, and fastening a block, m, with one or more resting flats, c and d, and one or more inclined planes, a and b, on its upper face to the bed plate. A, the groove and block being arranged with reference to each other, substantially in the manner as and for the purpose here.

43,781.-Horse-halter.-Enoch H. Le Baron, Mattapoi-

sett, Mass.: I claim a rope halter made by "unlaying" the strands of a part of the rope, and platting or braiding up that portion which forms the "beadstall," and splicing it together, in the manner substantally as described.

as described. 43,782.—Corn Planter.—Fredrich Loos, Denver City, Territory of Colorado: I claim the cylinder, E. its recess, e. piston, f, spindle, h, and the projection, i, the whole being arranged within the packed box, B, in respect to the hopper, c, and tube, D, substantially as and for the purpose herein set forth.

43, 783. — Apparatus for cutting-out Knitted Stockings. Wm. Martin, Philadelphia, Pa.: l claim the arrangement described of knives with straight cutting edges, B B, and zig-zag cutting edges, a and a', for the purpose specified.

specined. 43,784.—Boot and Shee.—Charles Mayer, New York City. Ante.dated June 3, 1864: I claim the employment of the pin, c, and hinges, a, in combina-tion with boots and shoes, substantially in the manner and ror the purpose herein shown and described.

(This invention relates particularly to an improvement in laced shoes or "balmoral" boots, and the principal objectof the invention is to enable the wearer to take off said boots or shoes without un-lacing them, simply by withdrawing a pin. Furthermore, by the ap-plication of this improvement to boots or shoes the ankle of the poot is braced or supported, and the wrinkling and creasing of those parts contiguous to the back seam of such boots or shoes is pre vented.]

43,785.—Manufacture of Table Cutlery.—Alex. McGuire, Winsted, Conn.: Icl im forming a "nib-bolster" for table cutlery by the "drop" process, substantially as and for the purposes described.

43,786.—Flat-iron Heater.—George R. Moore, Lyons,

43, (36.—Fiat-fron Heater.—George R. Moore, Lyons, Iowa: I claim, first, The arrangement of a sad-iron beater baving an outer casing, D, surrounding an annular chamber, a, between it and the fire-chamber, B, upon which rests the griddle, E, substantially as described and for the purposes set forth. Second, I also claim the rim or flange, h, of the casing D, extend-ing above the griddle, E, for the purpose of protection against cold currents of air.

-Tanning Apparatus.-Joseph Mouren, Mar

43,787.—TAINING Apparatus. Second seilles, France: I claim, first, The method of taining hides or skins by placing them in a ve-sel each between two layers of tan before injecting the taining liquid, substantially as described. Second, The construction of the taining vessel, that is to say, making the same of cast-fron and of a columnar form lined with lead, substantially as set forth.

43,788.—Umbrella.—Francis V. Noette, Brooklyn, N. Y.: I claim in the construction of umbrellas and analogous folding structures, the employment of metal sockets, D and E, formed from tubes as described, and adapted to confine and release the folding parts of the framework, substantially in the manner and for the purpose herein set forth.

43,789.—Lumber Measure.—A. M. Olds, Chicago, Ill.: I claim, first, The expansible wheel, B, provided with the adju

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able disk, C, or its equivalent, operating substantially as and for the purposes herein set forth and shown. Second, I claim the combination of the disk, C, the shaft, J, and bent rod, d, arranged and operating substantially as and for the purpose specified. Third, I claim the combination of the expansible wheel, B, and the worm, D, with the system of wheels, E F G H I, or their equivalents, substantially as and fol the purposes berein delineated and se forth.

forth. 43,790.—Fence Post.—Jerome Palmer, Painesville, Ohio: I claim the manner of combining a wood or other post with an anti-destructible base by constructing the upper portion of the base or sill, A, with the broad and elongated wedge-shaped tongue, C, the said tongue being provided with a notch or its equivalent on its up-per edge, and bolt holes through its lower part, as shown in com-bination with a wood post having faces, or an open aperture, c cor-responding to the facesof the said tongue, C, and porvided with the bolts, b and a, for ensuring the post against splitbing, and securing it to the said tongue, and located as shown or iron posts with such corresponding faces or planes, as shown in Fig. 6, substadtially as herein stated and for the purpose specified.

43,791.—Dough-kneader.—A. Judson Palmer, Brooklyn, N. Y.:

N. Y.: I claim the conical hopper, A, in combination with the stirrer or kneading bar, B, arranged within the hopper, to operate substan-tially as and for the purpose berein set forth.

3.792.—Clasp for Bank Bills, etc.—Charles Perley, New York City: I claim a metallic spring clasp or file for bank bills, etc., held to-gether in substantially the manner described and shown.

43,793.—Hawse Pipe-stopper.—Charles Perley, New

York City: I claim a divided stopper adapted to receive the cable, and fitting nto the pipe passing said cable, substantially as specified. 43.794.

194.—Damper.—Hyland Raymond, Racine, Wis.: haim the annular plate. E, in combination with the plate, C, diameter than the drum, A, the two plates being arranged wi he drum, and one of them being movable, to operate in the mi-substantially as herein set forth. in th

[This invention relates to a new and improved heat radiator, deigned to be applied to the pipes of stoves, furnaces, and the like, to reventthe heat from passing into the flue or being carried off by the pipe, and cause it to be radiated into the room.]

the pipe, and cause it to be radiated into the room.]
43,795.—Machine for cutting Rasps.—Alexander N. Redman, Boston, Mass. Ante-dated July 23, 1864.
I claim first, The arrangement of mechanical devices herein described for forming rasps, the whole operating together substantially as described.
Second, Imparting to the rasping tool employed, the necessary up and down movements to form the rasp. ye means of the arm. wheel, g lever-frame k, and horizontal lever-arm, q arranged and operating together as specified.
Third, The combination of the cam.groove, s, horizontal shaft or rulerum, r, and lever, g, arranged and operating together as sherein above set forth, across the blank har while it is fed along to the said tool at regular and proper intervals of time.
27000. Lithcogrambia Douver Drace.

above set forth, across the blank bar while it is fed along to the said tool at regular and proper intervals of time.
43,796.—Lithographic Power Press.—Edward Reynolds, Mansfield, Conn.:

Iclaim regulating the throw of the scraper by means of the set screw m, and he adjusting slot, 1,2 as described.
Ialso claim the employment of a distributing cylinder and ink rollers, a b c, when having regular lateral movements imparted to them, substantially as and for the purpose set forth.
Iso claim giving to the front roll, c, a forward movement above and out of contact with the stone, and a back movement upon the stone, substantially as specified.
Ialso claim giving to to the roll, c, and to the damper, their vertical movements, by the sliding incline plate as set forth.
I also claim the method of operating the carriages, S and W, by one oscillating plate, h, (or one on each side of the machine) actuating the two levers, substantially as set forth.
I also claim the method of operating the carriages, S and W, by an escillating plate, h, (or one on each side of the machine) actuating the two levers, substantially as set forth.
I also claim the method of operating the carriage, S and W, by an escillating plate, h, (or one on each side of the machine) actuating the troper stationary, while the tupon the opposite side is operating.
I also claim the method set optic the stone being stationary, while the tupon the operating the niper fingers, closing them upon the sharing to no per ating the niper fingers, closing them upon the sharing the troper them the tympan network and opening them and releasing the sheet when the tympan returns to its normal position substantially as set torth.
I also claim the mechanism for operating the sheet when the tympan returns to its normal position substantially as set torth.
I also claim the mechanism to the scraper curved arm, v, and prejection, u, operating the the the tympan the store an

43,797.—Churn.—George W. Sayre, Pisgah, Ohio: I claim the arrangement of the double rebated central upright provided with the clasps, a b, and slides, EE, furnished with ad ing puns for the dashers, when operated together in the manner scribed for the purpose set forth.

scribed for the purpose set forth. 43,798.—Soda Fountain.—Carl Schultz and Thomas War-ker, New York City. Ante-dated July 28, 1864. We claim first, Surrounding the soda fountain, A, with an atmos-phere of a pressure equal to that of the gas contained in the said fountain, substantially in the manner and for the purpose described. Second, The inlet and outlet valves, $d \in d$, in combination with the vessel, A, and shell, D, constructor and operating in the manner and for the purpose substantially as specified. 42709 Hoop Toy, Routhon Shelor, Madison, Conn.

A3,709.—Hoop Toy.—Reuben Shaler, Madison, Conn.: I claim the combination of a spring or its equivalent with boop toys, when arranged so as to give to the toy a tilting motion from the revolving hoop substantially as specified.

43,800.—Soap.—Charles E. Salisbee, Detroit Mich.: Iclaim the producing of soap in the form of a fine dry powder, with powers of cleansing as aforefaid, using for that purpos. the aforesaid ingredients, or any others substantially the same, and which will produce the same effect.

43,802.—Grinding Mill.—William H. Starry, Franklin, Ohio. Ante-dated February 28, 1864.
Iclaim the mode substantially as described of automatically ar-resting the motion of a grinding mill when running empty by means of the disengaging mechanism, C D E e m N O Q, or devices substant tially equivalent.

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in set forth. 43,804.—Gang Plow and Seeder.—Draper Stone, Pitts-field, N. Y.: I claim the combination and relative arrangement of the draught beam, A. diagonal plough beam. B. ribbed joint plate, C, tie bolt, t, (one end of which is connected to the ear, e, of the washer plate, w'i) with the seed box, B, and its appurtenances, all being arranged and operating conjointly in the manner and for the purposes set forth,

43,805.— Apparatus for rectifying Alcohol.—Macklot Thompson, St. Louis, Mo.: Iclaim First, The employment in rectifying stills or apparatus of columnscomposed of diagram sections in combination with inverted ups having horizontal fanges at their borders substantially in the manner and for the purposes set for h. Sec. nd., The employment in rectifying stills or apparatus of col-umns composed of diagram sections in combination with projecting overflow pipes whose off ce is contarged of function of the approximation of the approximation of the diagram sections for a formed shaped, substan-tially in the manner and for the purpose described. Third. The diagram sections provided with fanged inverted cups in combination with runnel-shaped overflow pipes, substantially in the manner and for the purposes described. 43,806.—Chock.—Charles B. Toll. Roston Mass ·

43,806.-Lock.-Charles B. Toll, Boston, Mass.:

1 claim my improved lock hereinbefore described as having series of rotary tumblers, stationary, divisional and recessed pla and friction springs made and arranged together and applied box or case, substantially in manner and so as to operate and be erated by a key as described.

-Shoulder Brace.-Albert W. Upton, Lowell,

43,807.—Shoulder Brace.—Albert W. Upton, Lowell, Mass.: I claim the combination and arrangement of the auxiliary brace straps F, with the shoulder straps A A, and the arm straps, B B, the said shoulder straps being connected by a strap. C, and provided with means (viz. suspension straps, D D E E, or their equivalents) by while the brace may be connected with the pantaloons or a body bett

43,808. — Tilling the Soil. — W. Wadsworth, California, Cal:

Cal.: I chain the entployment or use of a series of times or teeth, d, at-tached to a suitable rockshait, D, and having an objeue or inclinxul position relatively with the surface of the soil to be operated upon so that as said teeth or times are propelled or drawn along in the soil, the latter will be forked up while weeks, straw and similar trash will pass over the teeth or times to the rear of the machine substan-tially as herein set forth. I further claim the combination of the teeth or times, d, rotary toothed drum, G, and roller, C, all arranged substantially as and for the purpose specified.

[This inventien relates to a new and improved machine for forking up and pulverizing the soil to a requisite depth.]

43,809.—Shears.—Theodore Wallis, Scipo, N. Y.: I claim the pulley, I, and the connections, G and H, in combina tion with the levers C and B, as set forth.

43.810.—Radiators.—William Washburn, Boston, Mass.: I claim incombination the chamber, A, tubes, C C, &c., and the passages, B B with the openings, G G, substantially as herein de-scribed.

-Straw-cutter.-D. H. Whitlemore, Worcester. 43,811

43,811.—Straw-cutter.—D. H. Whitemore, worcester, Mass.: I claim, first, The lever, b, ears, c d, convex surface, c, with the corresponding concave of d, when combined and arranged as and for the purpose specified. Second, I claim the inclined plane of the step, h, when combined with the corresponding shape of c, and used as and for the purpose set forth.

set forth. 43,812.—Hemp and Flax Brake.—John Bryant (assignor to himself and Allen L. Baily), Akron, Ind.: I claim the walking beam, F, connected to the bar or rod, E. which is attacked to the viorating jaw, G, of the brake, through the medium of the zig-zag bar, E', and spring, G, arranged and applied substantially as and if or the purpose herein set forth. [This invention relates to a new and useful improvement in the ordinary flax and hemp brake, and it consists in a novel manner of consting the same frame a cream dening short wherehow the ma

operating the same from a rotary driving shaft, whereby the ma-chine may be operated by any convenient motor, and the brake prevented from being injured or strained in the event of the movable jaw being impeded by tough flax or hemp or other substance be tween it and the stationary jaw.]

tween it and the stationary jaw.j 43,813.—Process of hardening Iron.—Thomas Chappell & Wm. Ashley Jones, Winona, Minn.: We claim the within described process of hardening iron or other metal by hringing the article to be hardened, when heated to a with heat in contact with a piece of old cast-iron ketue, or other similar cast-iron heated to a melting heat, and then cooling suddenly, sub-stantially as herein specified. [This invention is based on the discovery that by heating a piece of iron or steel to a white heat, and at the same time heating a piece of a cast-iron of that kind which is used for kettles or other yes, els to

of cast-iron of that kind which is used for kettles or other ves.els to a melting heat, and then quickly rubbing the two together or by dip ping the heated iron, steel or other metal in cast-iron of the class above described, melted in a crucible, for a short period of time, the two will so blend that by at once cooling the same in,water it will be come so hard that no file will touch it.]

43,814.—Device for tapping Boots and Shoes.—Gurdon Conkling (assignor to Caroline A. Conkling), Con-klingsville, N. Y.: I claim the employment or use of the sole plate, A, in combina-tion with a last-shaped piece, B, and wedge, C, all constructed and appled in the macner and for the purpose substantially as specified. [This invention consists in the employment or use of sole plate

This invention consists in the emphyment of use of soil plate made of metal or other suitable material and provided with a pro-jecting toe flange in combination with a piece of board cut out according to the outlines of last and with a wedge, in such manner that cording to the outlines of last and with a weage, in such manner that by means of said last-shaped board and wedge the sole plate are firmly secured on the inside of a boot or shoe, and a new half-sole put on without the necessity of having a full last correspondcan be put on without the necessity of naving a tar has contraspon-ing to the boot or shoe to be soled, and so that any person, particu-larly soldiers in the field, will be enabled to provide themselves with es with ecessary means for the purpose of tapping their own boots or the 1 shoes.1

43.815.

43,815.—Stove Cover of Cooking Stoves.—George Him-rod & C. G. Moulton (assignors to said George Himrod), Chicago, Ill.:
We claim the combination of the cover, B, provided with the cou-vex perimeter as shown, with the concave bed of the boller hole, C, arranged and operating as and for the purposes herein specified and shown.

arranged and operating as and for the purposes detent specified and shown.
43,816. —Eyeletting Machine. —Timothy K. Reed, North Bridgewater, Mass., assignor to Elmer Townsend, Boston, Mass.
I chaim in connection with an inclined chute and hopper, constructing the hopper with eyelet passages leading from the side thereof when said passages are so arranged as to direct and convey the eyelets immediately into the chute, substantially as described.
I also claim causing the plin, o, to withdraw during the deveet to the sole to the sole of the lower set forth. I also claim the ombination of the lifter bar, g, spring, s, and rod. y, operating in the manner described, for effecting the movements of the pin.
Also Fall mediation of the lifter bar, g, spring, s, and rod.
Y, operating in the manner described, for effecting the movements of the pin.

43,817.—Grain Separator.—Otis W. Stanford (assignor to himself and Robert W. Gilchrist), Lebanon,

to himself and Robert W. Gilchrist), Lebanon, Ohio: I claum, first, The arrangement of the shoe, B, suspended near mid hight, at its rear end in the open sided frame or casing, A, by means of the yielding side straps or hars, L, and poised in front upon the single pallet, P p', whose arms act to strike the shoe when the latter is laterally agitated by the zig-zag, cam. N, or its equivalent, substantially as set forth. Second, The arrangement immediately beneath the discharging aperture of the hopper, of the chute, G, from which a series of figures, H, project above the upper surface of the chute and rear-ward beyond its edge, for the purposes set forth.

Third, The arrangement of grass seed screen, I, double inclined hute, J, and side ducts, K K', substantially as set forth. Fourth, The provision of the spring bar or statch, T, for the secure holding and ready liberation of one or more screens, as set forth.

Holding and ready liberation of one or more screens, as set forth.
43,818.—Power Press.—Moses G. Wilder, Meriden, Conn., assignor to himself and H. B. Bigelow, New Haven, Conn.:
I claim, first, The combination of the larch bolt with an eccentric wrist and roll, when arranged to catch and release the roll, as and for the purpose specified.
43,819.—Sewing Machine.—Charles H. Wilcox (assignor to James Wilcox), New York City. Patented in England May 31, 1862:
I claim the combination of devices for producing in sewing machines suitable nipping surfaces until the stitch or loop is nearly or quite arawn up to the surface of the material being sewed, and then releasing the thread suddenly, so as to allow sufficient forming of the next stitch, substantially in the manner herein set forth.

43,820.—Breech-loading Fire-arm.—Alfred Krupp, Es sen. Prussia:

43,820.—Breech-ionumg rate and sen, Prussia: I claim, first, The valve, F, and screw, D, in combination with the transversely sliding breech-block, B, constructed and operating in the manner and for the purpose, substantially as here in specified. Second, The notched socket, m, in the breech-block, in combina-tion with the expansion washer, G, constructed and operating sub-stantially as and for the purpose set forth.

stantially as and for the purpose set forth. 43,821.—Photo-galvanography.—Paul Emiele Placet, Paris, France: I claim the method of producing engraved surfaces by employ-mentand application of substances which light renders insoluble to and upon the side of the subjectile which is directly exposed to the light in combination with the dissolving operations and the produc-tion of relief or plates engraved in i.t.sglio, by molding or galvano-plasty, substantially as herein described. 43,822.—Photo-sculpture.—Francois Willieme, Paris,

RE-ISSUES.

RE-ISSUES. 1,735.—Lamp.—Cahoon Manufacturing Company (as-signees by mesne-assignments of Charles W. Ca-hoon), Portland, Maine. Patented Feb. 19, 1861 : I claim the combination of the chimney-holder and clamp chimney fastenings of a lamp with the support of the chimney-holder, chimney fastenings, support for the chimney-holder, chimney fastenings, support for the chimney and thumb plate; the whole operating substantially as set forth. I also claim the combination of the preceding combination with a guard, arranged substantially as set forth. I also claim the combination of a spring with the chimney-holder, chimney fastenings, support for the chimney and joint, the whole operating substantially as set forth. I also claim the combination of a chimney guard with the chim-ney-holder, chimney fastenings, support for the chimney and joint, the whole operating substantially as set forth. I also claim the combination of a chimney guard with the chim-ney-holder, chimney fastenings, support for the chimney and joint, the whole operating substantially as set forth. I also claim the combination of a chimney guard with the chim-ney-holder, chimney fastenings, support for the chimney and joint, I also claim the combination of a chimney guard with the chim-ney-holder, chimney fastenings, support for the chimney and joint, I also claim the combination of a transparent platewith an opaque metal lamp body, substantially as set forth. 1,736.—Stirrup.—Cyrus W. Saladee, Paducah, Ky.

1,736.—Stirrup.—Cyrus W. Saladee, Paducah, Ky. Patented April 27, 1864: I elaim as a new article of manufacture the guard, B, constructed, of stating, and attached in the manner substantially is shown and described.

EXTENSION.

EXTENSION. Bolt and Rivet Machine.—Wm. E. Ward, Rochester, N. Y. Patented July 30, 1850: I claim, first, Gaging the length of the shank after a kead has been formed on the end by pushing the head against a gage beyond the header which has a lateral motion to allow it to pass by, substan-nally as described, in combination with the operation of cutting off the shank at such distance from the griping dies as by the same operation to determine or gage the length of rod or wire which shall be left projecting beyond the griping dies for forming the next head, substantially as described. Second, Cutting off the rod or wire, after the head has been formed, by the return lateral motion of the header, in combination with the rest, substantially as described, the edges of the rest and heading die being formed to answer the purpose of shears, as herein described.



no inventions in the United States and in all foreign countries during the past scenteen years. Statistics show that nearly over-three dailing to the the state scenteen years. Statistics show that nearly over-three of all the applications made for patents in the United States are solicited through this office ; while nearly THREE-FOURTHS of all the patents taken in foreign countries are procured through the same source. It is almost needless to add that, after seconcent grars' experience in pre-paring specifications and drawings for the United States Patent Office, the proprietors of the SCIENTIFIC AMERICAN are perfectly conversant with the preparation of applications in the best manner, and the transaction of all business before the Patent Office; but they take pleasure in presenting the annexed testimonials from the three last ex Commissioners of Patents :--

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Hon. Wm. D. Bishop, late Member of Congress from Connecticut, acceeded Mr. Holt as Commissioner of Patents. Upon resigning the

successed Mr. Holt as Commissioner of Patents. Upon resigning the onnee he wrote to us as follows: MESSER, MUNN & Co. --It gives me much pleasure to say that, dur-ing the time of my holding the office of Commissioner of Patents, a very large proportion of the business of inventors before the Patent Office was transacted through your agency; and that I have ever found you faithful and devoted to the interests of your chents, as well as eminently qualified to perform the duties of Patent Attorneys with skill and accuracy. Very respectfully, your obedient servant, Very respectfully, your obedient servant, WM. D. BISHOP.

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Patents are nowgranted for SEVENTEEN years, and the Government fee required on filing an application for a patent is \$15. Other changes in the fees are also made as follows :-

On	filing each Caveat	
Ōn	filing each Caveat	
On	issuing each original Patent\$20	
On	appeal to Commissioner of Patents\$20	
On	application for Re-issue\$30	
On	application for extension of Patent\$50	
On	granting the Extension \$50	
	iling a Disclaimer	
On	filing application for Design (three and a half years)\$10	
On	filing application for Design (seven years)	
On	filingapplication for Design (fourteen years)\$30	

The Patent Laws, enacted by Congress on the 2d of March, 1861, are now in full force, and prove to be of great benefit to all parties who are concerned in new inventions. The law abolishes discrimination in fees required of foreigners, ex-

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