to the har, E. to hold the paper to the carriage, and press it down smooth and tight, in passing under the platen, when made substantially as described, 5th, The spools, m. combined with the sudgeon. St. the stafe, h, the pulley g. k and R. the band, w, the cord, v, the weight. W, the ratcher wheel, V, the pawl, t, and the bar. P proved to the back of the case, A2, to feed a fresh part of the 1 king-libbon under the platen, to each type successively, when made substantially as described.

79.266.— PPIRIT LEVEL.—J. D. Sibley. Middletown, Conn.

1 claim the combination of the revolving sighted level with the disk, A, when arranged and operating as herein described, and forthe purposes set forth.

forth. 79,267.—Car Track.—Sidney Skillman, Jersey city; N. J.-

79,267.—CAR TRACK.—Sidney Skillman, Jersey city; N. J.—Antedated June 16, 1868.

1 claim, 181. The swiveling of the truck on a centre coincident with the centre of the boiler, by means of the swiveling ring, H, arranged substantially as herein described.

24. It condection with the above, the tilting ring, G, turning on the centres, 1g2 and h b2. arranged substantially and for the purpose her in specified.

35. In combination with the boller, D, located at or forward of the centre of the truck, the employment of a bearing, I, in rear of the centure of the centre of the struck, so arranged as to support or aid in supporting the weight of the car in such manner as to throw more of its weight upon the rear than upon the front axe of the truck, substantially as and for the purposes herein set of the.

st. forth.

4th, The within-described arrangement of the hole, P, stack, d. boiler, D, and weak braces, M. or their equivalents, adapted to operate together in the manner berein specified.

79,268.—ELECTRIC FUSE.—H. Julius Smith, Boston, Mass.

I claim an electric fuse, in which the end of a single insulating cord, containing two insulated wires, is introduced directly into the cap containing the fullminate to be fired, in the manner described.

79,269.—Book Binding.—William Smith, New York city. I claim a book, when it has its covers secured to its leaves by tapes, or end fastened to both the outer and inner sides of the covers, substantially as described.

79,270.—AUTOMATIC DENTAL PLUGGING INSTRUMENT.-George B. Snow and Theodore G. Lewis, Buffalo, N. Y.
we claim a plugging instrument, baying all its autumatic operating parts
contained within the case forming the bandle of the instrument, substantially

as described. 79.271.—Transmitting Signals.—P. A. Sparre, Stockholm, Sweden. claim, 18t, The dick, d, in combination with the stop, e, stand, f, and bolt,

I claim, 1st, The di-k, d, in combination with the scop, c, seepin, i, and cong, g, as described.

2d, The rack. i. in combination with the pinion, j, connected with the gear, k, by means of the rack betwheel, i, in connection with the catch, m, escapement, n, and spring, o, as described.

3d, The plate, pl, affixed to the cylinder, p3, in combination with the lever, q, spling, r, hook, s, and spring, si, as described.

4th, Tir-plate, t, hinged to its case as shown at, ti, in combination with the rack, i, square, u, pn, ul, and spring, ul, as described.

5th, The stop, v, mounted on the disk, al, in combination with the inclinad planes, v1, v2, v2, hook, s, and spring, sl, as described, to operate substantially as herein set forth.

ally as herein set forto.

79,272.—INSTRUMENT FOR ADDING AND REGISTERING NUMBERS.—Nelson Spofford and Charles Corliss (ass.gnors to Charles Corliss), Haverbill, Mass.

We claim, ist, The graduated sliding spring bar, b, when applied and operative, substantially in the mariner and for the purpose set forth.

2d. The sliding graduated bar, b, in combination with ratchet, f, and toothed-wheel, c, so and for the purpose specified.

3d. The combination with the bar, b, and spring, d, of the system of gearing, and the indicators, as set forth.

4th, The combination of graduated bar, b, casing, a, and head, c, substantially as and for the purpose specified.

5th, 7th emethod of adding a series of figures or numbers, by means of a sliding bar, operating a system of gearing or watch-work, substantially as set forth.

79.273.—Sled.—Edward L. Stevens (assignor to Isaac Baker). [3], 2(a).—DLED.—EdWard L. Sievens (assignor to isaac Baker). Houlton, Me.
I claim, 1st, The slotted bar, G, in combination with the spring, D, when constructed and operating substantially as and for the purposes described.
2d, A consting slod, having rudder, A, bell holder and bell, C, spring, E, slot, I, change, K, ribbons, Q, and surrups, S, constructed, arranged, and operating substantially as specified.

79.274.—RECIPROCATING STEAM ENGINE.—David Steddart,

'93.2'4.— KECIPROCATING STEAM ENGINE.—David Stoddart, San Francisco, Cal.
I claim, ist, The arrangement of the pistons, Bi B2, small pistons Di D2, valve, C, and the passages, Hi H2, communicating to the cylinder, substantially as described.
2d, The arrangement of the auxiliary passages, Ki K2, substantially as described.

described.
79,275.—Base-Burning Fireplace Stoves.—David Stuart and Lewis Bridge (assignors to Stuart, Peterson & Co., Paladelphis, Pa. We claim, 1st, The base of the stove, enclosing the passages, E, F and G, stranged and communicating with the pipes, P and P', substantially as described.

stranged and communicating with the pipes, r and r, succession, and described.

2d. Two or more pipes, P and P', arranged within the outer casing of a freplace stove, for conveying the products of combustion to the chimney, and for beating the air admitted to the space within the said outer casting, all substantially as and for the purpose herein set forth.

3d. The pipes P and P', in combination with the compartments, k, and k', and the valved partition between the same.

4th, The double cover, consisting of plates 3 and 3, one for fitting to the top of the sove and the other to the top of the feder, and so arranged that the products of combustion can pass between them.

79,276.—REAMER.—Edward Sullivan, Pittsburg, Pa., Antegated June 6, 1868.

79,270.—REAMER.—Edward Schrift, 1997.
dated June 6, 1888.
I claim the combination and arrongements of the cutters and blank head, C, colar, e, sleeve, D. cone, f, rod, A, and the cutters and blanks, the whole being constructed, arranged, combined, and operated substantially as berein described, and for the purpose set forth.

79,277.—LAMP CHIMNEY.—Michael Sweeney, Wheeling,

W. Va. I claim, as a new article of manufacture a lamp chimney, constructed with an oval bulge, regular in form, and with a uniform curvature, except as to the rounded lens formed projection, B, on the sides, substantially as set forth. 79,278.—Hat.—B. B. Taggart and C. W. Brown, Water-

town, N. Y.
We clam, as a new article of maquiacture, a hat or bonnet body, molded
rpre sed from a continuous sheet of formed paper, substantially as and
or the purposes herein shown and specified.

or pre sea from a continuous sheet of formed paper, substantially as and for the purposes herein shown and specified.

79,279—LUBRICATOR.—Hiram Taylor, Cincinnati, Ohio.
I claim, 1st, A metallic band or collar, I, cast around and within the neck of the receively. 6, for the purpose of attaching the supporting stem, E, thereto, as specified.

2d. In combination with the band or collur, I, of soft or fusible metal, applied as set forth, the threaded tube or bushing, F, of harder metal, for the reception of a screw on the upper end of the stem, E.

3d. The rod, D, formed with a projection or salargement, d, on its upper end, to support out of contact with the journal, substantially as described.

cribed
78,280,—COMBINED LAND ROLLER, FERTILIZER, AND SEED
SOWER.—L. D. Taylor, Granville Centre, Pa.
I claim the combination of the front and rear hoppers, II, and their respective plates, K. K. Pitmen, P.P. lev rs, LL. rollers, M. M. and cylinders, A. A. all constructed and operating substantially as specified.
79.281.—Brakk for Hokse Power Machines.—Daniel G.

Terrell, Wakefield, Pa. I claim the arrangement in horse powers, of the mechanism herein described, whereby the break will be self acting when the belt breaks or flies off, and also serves the purpose of a hand brake, to stop the machine when the belt is on in running order, substantially as and for the purposes herein set forth. 79,282 — Horse Power. — Daniel J. Tittle, (assignor to Albi

79,282 — Horse Power. — Daniel J. Tittle, (assignor to Albi M. Tittle, Albany, N. Y. I. caim, 1st, The endless thread composed of the pieces, e. e., and furnished with the links ff, onter cors, g, andmiddle cors, h n h, and all in combination with the said tread pieces, e. e., substantially as and for the purpose set for h and described.

2d. The grar wheel, K., working on the shaft of the carrying wheels, c, in combination with the lever, i and n, and connecting bar, o, or their equivalents, as and for the purpose set forth and described.

3d. The gear wheel, M. in combination with the drive wheel, D, or its equivalent, and the gear wheel, K, substantially as and for the purpose set forth and described.

forth and described.

4th. The rollers, rr, with their supporting bars, tt, or their equivalents, in combination with the lever. S, and its link, w, an I connecting ear, v, or their equivalents, as and for the purpose set forth and described.

5th. The bolding clamps, x x', and binding bolt and nut, y, or its equivalents, as and for the purpose set forth and described.

6th, The pan, Z, arranged as and for the purpose set forth and described.

79,283.—CAR COUPLING.—E. R. Whitney, Plattsburg. N. Y. I claim the arrangement of a four armed cross or wheel, B dog or lever, C, with spring, D, pawl, E, handle, F, and noteb, a, all made and arranged to the coupling box. A, and operating substantially as and for the purposes above set forth.

the coupling box. A, and operating substantially as and for the purposes above set forth.

79 284.—Horse Rake.—Frank Wicks, Upper Sandusky, O. I claim, let, the runners, E. E. constructed substantially as described with the curved part extending from the iront extremity to the rear of the line of the points of the teeth, P.P. for the purpose set forth.

2d, Locating the post, G, or us equivalent, back of the points of the teeth P.P. substantially in themanner and for the purpose specified.

2s. The concruction and arrangement of the roots or braces, N.O., with the handles and cross her, I, and nuts, tt, for the purpose of bracing the handles to the cross bar, I, substantially in the manner described.

78,285.—Spring Bed Bottom.—Newiel J. Willis, (assignor to the Boston Spring Bed Company), Boston, Mass.

1 claim the impreved spring head buttom, as composed of the frame, B, the two round bars. A, the two series of springs, C. (of the kind described), and the series of slats. D, arranged and applied together substantially as described,

Cribed,
Also, the construction and arrangement of the two buttons with the grooved sia's and their springs, arranged and applied to such state and round wars in manner substantially as explained.

79.286.—Cherse Press.—Putnam Wilson, Newport, assig-19,200.—CHERED I RESS.—I transmit in Albert, The Company of the levers, E. E. uprights. D. I. claim the construction and arrangement of the levers, E. E. uprights. D. D. movable bottom, B., upright standard, F. and follower, G. all operated by the rope, I, drum, J. and lever, K. substantially as herein set forth.

around which the string or its equivalent, is looped, in the manner substantially as herein shown and described.

79.288.—Link Holder.—John Hartzell Zinn, Harrisburg.
as ig nor to bimself and T. B. Weakley, Dauphin County, Pa.
1 claim the arrangement of the lever, D, with central arm, a, pivoted on the frame, A, and arm, C, in councitou with the arch shaped flange, B, all made of iron, brass, or other suits, le material, for the bisped flange, B, all made of iron, brass, or other suits, le material, for the bisped flange, To all the arch shaped flange, B, all made of iron brass, or other suits, le material, for the bisped flange, B, all made of iron brass, or other suits, le material, for the bisped flange, B, all made of iron brass, and ir 79,289.—APPARATUS FOR MOTIVE POWER.—S. G. Monce.

79,289.—APPARATUS FOR MOTIVE POWER.—S. G. Monce, Marathon, Ohio.
1 claim the combination of the verge, g, arm or lever, i, connecting rod, k. an fi, wheel, o, all as shown and described.
79,290.—CARBURETER.—Charles Benjamin Willough by, (**sigror to bims*') and W. A. Bovey, Ubricks ville, Ohio.
1 claim, 1st, The combination of the oil tank, B, gas chamber, D, pipes and valves, d, all as shown and described, and for the purpose specified.
2d, The combination of the gas chamber, D, gas pipe, E, and valves, f, substantially as shown and described, and for the purpose specified.
3d, The combination of the oil chamber, B, the air supply pipe, C, and valve, c, substantially as thown and described and for the purpose set for the.

valve, c, substantially as shown and described and for the purpose set forth.

79,291.— BREECH LOADING FIRE ARM.—William Morgenstern, Hartford, Conn., assignor to Herman Funke.
I claim, 1st, in combination with a hinged breech block, the firing pin, main spring, and sere, arranged within said block, substantially as described for the purpose set forth.

2d, Making the firing pin and dog, or bandle, all in one piece, substantially as described for the purpose set forth.

8d, in combination with a swinging breech and firing pin or bammer the projecting portion, E, the whole arranged to accomplish the locking down of the breech, substantially as described.

4th, The employment, in combination with an extractor, of and ejector, composed of a spring cam or hoper, such as herein described.

79,292.—FRUIT PICKER.—James H. Lament and D. A. Lament, Troy, Pa.

We claim the combination, in a fruit picker, of the vessel, A, and fingers, a a a a, all substantially as shown and described.

REISSUES.

REISSUES.

2,996.—Harvester Rake.—C. Aultman, Canton, Ohio, assignee of Daniel E. Swartz and Jonathan Kreamer, Milhelm, Pa. Dated May 12, 1868.

We claim, 1st, The combination of a main frame, supported upon two wbeels, a laterally projecting platform and cutting apparatus which shall be in advance of the main axir, with the support of a series of combined rake and reel rms, rigidly connected with the finger bar 2d, The combination with a two wheelitront cur harvester, of a main frame between the wheels, the hinzed supporting hars, Lt., the cutting apparatus plaiform, and series of revolving rake and reel arms pivoted to a central hub, and oriven by an a trensible shaft from the main axie.

3d, Mounting a combined rake and reel on a front cut harvester, in advance of the main axie.

4th, The combination of a combined rake and reel, having independent binged arms, a platform binged to the mainframe and the support of the ree and rake rigidly connected with the platform and finger beam, so as to conform thereto.

5th, A series of pivoted arms of a revolving rake and reel, attached near the percipery of an enlarged head or hub, in lines tangential to a circle, the centre of which is in the shaft around which said arms rotate, so as to dauge the revolving beads or rakes to approach the cutter in lines parallel or nearly parallel thereto.

6th, A combined revolving rake and reel, in combination with a hinged bar harvester, a coupling arm, and a movable brace or plate to support the finger bar, platform, and rake and reel.

2,997.—Grass Harvester.—Jonathan Haines, Pekin, Ill.

inger bar, platform, and rake and reel.

2,997.—GRASS HARVESTER.—Jonathan Haines, Pekin, Ill., assignee by mesne assignments of bimself, Division B. Dated September 4,1855; reissue 545, dated April 18,1858.

I claim, lat, in combination with a laterally projecting finger beam entirely unsupported at the outer end, and provided with open clotted guard fingers, through which and across said fingers the cutters are reciprocated in straight lines, a connecting roo or brace ber, m, having one end connected with and jointed to the teel of said finger beam, and its other end fiexibly connected with the mainframe of the macoins, for the purpose of controlling the lateral movements of the finger beam, so that the cutters and guard fingers will be kept in unison with each other throughout the up and down movements of said finger beam, independent of the main frame, substantially as set forth.

as set forth.

2d. The drooping bracket, J, extending downward below the main frame, for the purpose of giving support to the crank shaft, and to bring the crank and pitman more nearly in the line with the cutters, substantially as set

for:h.

3d, The shield brace, Q, connected to the bracket, J, to protect the crank which drives the cutters while passing over cut grass and other obsurations, substantially as set for it.

4th, Connecting the upper end of the brace or bar, m, to the bracket, J, substantially as set forth.

5th, The combination of the guide, y, with the short cutter, h, and open slotted narrow divider, when all are arranged for joint operad on, substantially as set forth.

2,998.—Grass Harvester.—Jonathan Haines, Pekin, Ill., assignee by mesne assignments of himself. Dates Sept. 4,1855. Rel sue 545. Dated April 13,1838. Division C.

I claim flexibly connecting a laterally projecting cutting apparatus, which has its cutters reciprecated in artalgue lines through open-sludge guard ingers to the main trame of a mowing machine, substantially as set forth.

I claim flexibly connecting a laterally projecting cutting apparatus which has its cutters reciprocated in straight lines through concertabled guard ingers to the main frame of a mowing machine, substantially as set forth.

The main frame and the gearing which drives the cutters of a mowing machine, mounted upon two driving and supporting wheelsa draft pole to draw the machine by, rigidly connected to said frame, and a finger beam and cutting apparatus (the cutters of which reciprocate through open slotted guard ingers in straight inea), flexibly attached to the main frame in such a manner as will p rmit said inner beam and cutting apparatus to receive all their apparatus down movements from the undulation of the ground over which they are drawn, substantially as set forth.

In a mowing machine having a laterally projecting finger beam flexibly connected with the main frame, a lever so arranged that the driver can, while occupying his sea; by one single movement, raise the finger beam and outting apparatus bodily to on the ground while the machine is in motion, to pass over obstructions, etc., substantially as set forth.

Connecting the lever by which the cutting apparatus is raised to the heel of the finger beam, substantially as set forth.

In combination with the main frame which carries the gearing to drive the cutters, to which is flexibly connected a laterally projecting finger beam provided with open slotted guard gagers and cutters reciprocating across said finger beam, and having its fulcrum upon the main frame, so that when the finger beam and having its fulcrum upon the main frame, so that when the finger beam is raised by means of said lever, the weight of the entire cutting apparatus will be borne upon the main frame of a lever conveniently piaced within reach of the driver, to raise the cutting apparatus, the cutters of which are reciprocated in straight lines through open slotted guard in gard and finger beam flexibly connected with the main frame of a lever conveniently placed within reach of th

2,999.—HARVESTER RAKE.—Samuel Johnston, Syracuse, N.

substantially as set forth.

2,999.—HARVESTER RAKE.—Samuel Johnston, Syracuse, N. Y., assignee of Wm. T. Shaw and John Manz, Wilmington, Del. Dated Nov. 22, 1864.

We claim, 1st. The combination of a main frame supported on two wheels, a laterally projecting platform end cutting apparatus, so hinged to the main frame that the cutting apparatus shall be in advance of the main axie, with a series of combined rake and reel arms revolving on a support mounted on the platform.

2d, The combination of a main frame supported on two wheels, a laterally projecting platform and cutting apparatus so hinged to the main frame that the cutting platform and cutting apparatus so hinged to the main frame that the cutting platform and cutting apparatus so hinged to the main frame that the cutting apparatus shall be in avvance of the main ax.e, with a series of combined rake and reel arms revolving on a supp. rt mounted on the platform in front of the main axle, substantially as described.

3d. The combination with a two-wheel front-cut harvester, of a series of combined rake and reel arms on a standard or support, mounted on a hinged platform, the arms being independently hinged, and having a rising and falling movement independent of their axis of rotation.

4th, The combination with a two-wheel front-cut harvester, of a main frame, and as ries of rake and reel arms pivoted to a crown wheal or central bnh. located on the platform, and driven by an extensible connection with the main axle.

5th, The construction and adaptation of a combined rake and reel, which revolves entirely around a vertical center, so that it may be applied to the platform of a front-cut hinged-bar harvester, in front of the main axle and below the highest point of the drive wheel.

5th, The revolving bead, H H', made in two disconnected parts, adapted to be coupled and uncoupled by means of the key, hi, and recess, b2, so as to cause the rakes to operate when the machine is moving forward, and to remain attrest during taebackward movement thereof.

7th, T

3,000.—FLUTING MACHINE.—Geo. E. King, New York city. Dated February 26, 1867. Division A.

1 claim the guide. E, constructed with one or more curved or arched portons, a', no combination with suitable fluting rollers, substantially as here a set forth for the purpose specified.

3,001.—FLUTED PUFFING.—Geo. E. King, New York city.

Dated February 26, 1867. Division B.
I comm the within described puting, as a new article of manufacture, the same being formed by crinkling, gathering or irregularly waving one portion of the strip of muslin or other material simultaneously with fluting it along the edges of such portion, as at g, and forming flattened borders or portions, b, outside of the flutes, or between two next adjacent rows of them, to receive stitching, substantially as specified.

3,002.—Still for Petroleum, etc.—Charles Lockhart and

John Gracie, Pittsburg, Pa Dated November 17, 1868. Division A. We claim providing a still need for distilling bydrocarbon, with a scraper or scrapers combined with a receiving device, said a raper or scrapers being rotated during the process of distillation, and operating with relation to the bottom of the still and Said receiving device, substantially as herein described, and for the purpose set forth.

3,003.—Still for Petroleum, etc.—Charles Lockhart and 79,287.—TAG.—George F. Wright and William Orr, Jr., Cinron, Mass. Antedated June 5. 1868. Division B with relation to a still and its contents, that the vapor evolved from the contents, when inserted between the two thicknesses of the tag or label.

3,004.-IMPROVEMENT IN PIANO-FORTES.-G. C. Manner,

New York city. Dated November 18, 1886. I claim 1st, Placing the damp-lifters in a slot of the metal frame bebind the point supporting the strings, substantially as and for the purpose desteribed.

2d, The metal frame, A, when embeded in the wood work of the piano forth, so as to butt against the wrest plank, and when provided with an inverted bollow filled bridge, a, with a slot, b, and a diagonal brace, d, all made and operating substantially as and for the purpose herein shown and described.

assorbed.

3,005.—Bit Brace.—Greenleaf Stackpole, New York city, and J. N. Winslow, Portland, Me., assignees of Greenleaf Stackpole, Dated September 23, 1862.

I claim it In combination with a divided bit-shank socket, baving a contracted neck, the ring, E, for holding the hearings upon the shank of the bit, constructed and operating sp stantially assetforth.

2d, the bearings, C C, baving grooves, at and a2, therein, to admitdifferent sized bit shanks without an enlargement of the grooved to the extent of the whole length of the socket or the bit shank substantially as specified.

whole length of the socket or the bit shank substantially as specified.

3,006.—HARVESTER—Mitchell, Vance & Co.. (assignees of Edgar M. Smith) New York city. Dated Febrary 23, 1864. I claim 1st, in conshination with the main driving and supporting wheels, running loosely on the bule of said drive wheels, and having aratchet and pawl connection with each other, substantially in the mainer and for the purpose herein described and represented.

24, The arrangement of the two sets of plates and hoxes on the opposite sides of the main frame, so that the cutting apparatus may be arranged on either side as set forth.

3d The combination with two sets of plates arranged on opposite sides of the main frame, the curred bar or brace, F. extending from one to the other so as to leave unobstructed space at I, for the free action of the rake as described.

so as to leave unobstructed space at 1, for the tree action of the rane a costribed.

4th, In combination with the loose and shifting main wheels and mint cogged gears, the pinions b, permanently arranged on the shaft, d so that loose and shifting wheels will, when on either side of the machine, mesh with said pinions, as set forth, whichever end of the machine goes foremost 5th, Hanging the reel-biades to the reel shaft by means of the crossed arms and adjustable heads, hubs, or sockets, for the purpose of enlarging or diminishing the circumference of the reel, substantially as described.

6th, The adjustable pulley place and adjustable pulleys the conforthe purpose of taking up or letting out the reel belt when the reel is lowered or raised on its support, substantially as described.



ATENTS

The First Inquiry that presents itself to one who has made any improvement or discovery is: "Can 1 obtain a Patent?" A positive answer can only be had by presently a complete application for a Patent to the Commissioner of Pitents. An application to the An application to the Commissioner of Pitents. An application do all this business himself are generally without success. After a season of great perplexity and delay, he is usually glad to seek the aid of persons experienced in patent business, and have all the work done over again. The best plan is to solicit proper advice at the beginning.

If the parties consulted archonorable men, the inventor may safely confide bis ideas to them: they will advise whether the improvement is probably patentable, and will give him all the directions need ful to protect his rights.

Wesser MUNN & CO., in connection with the publication of the Squentrific

bly patentable, and will give him all the directions need in to protect his rights.

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Preliminary Examination.—In order to obtain a Preliminary Examination, make out a written description of the invention in your own words, and a rough pencil or pen-and-usk sketch. Send these with the fee ot \$5 by mail, addressed to MUNN & CO., 37 Park Row, and in due time you will receive an acknowledgement thereof, followed by a written report in reg rd to the patentability of your improvement. The Prehminary Examination consists of a special search, which we make with great care, among the models and patents at Washington, to ascertain whether the improvement presented is patentable.

In Order to Apply for a Patent, the law requires that a model shall be furnished, notover a foet in any dimensions—smaller if possible. Send the model by express, pre-paid addressed to Mnun & Co. 37 Park & w. New York, together with a description of its operation and merits. Or receipt thereof we will examine the invention carefully and advise the party as to its patentability, free of charge.

The model should be nearly made of any suitable materials, strongly fastened, without gine, and nearly nainted. The name of the inventor should be engraved or painted upon it. When the invention consists of an improvement upon some other machine, a full working model of the whole machine will not be necessary. But the model must be sufficiently perfect to show, with clearness, the nature and operation of the invorvement.

New medicines or medical compounds, and useful mixtures of all kinds, are paten able.

Reissues.—A reissue is granted to the original patentee, his beirs, or the assis nees of the errire interest, when by reason of an insufficient or defective specification the original patent is invalid, provided the error has arisen from inadvertence, accident, or mistake, without any fraudulent or deceptive

If om inadvertence, accurate, or missac, without any analysis of the intention.

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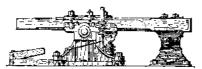
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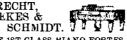
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