Recent American Inventions.

The following inventions are among the most useful improvements lately patented:-

POWER LOOM.

This invention consists in a novel system of cones of pulleys for supporting and operating the harness, whereby several important advantages are obtained. It also consists in certain means of producing a slower movement of the harness at the time of crossing the sheds as compared with the greater portion of its movement, whereby the loom is enabled to be driven at a higher velocity; that is to say, to make a greater number of picks per minute, without liability to injury to the warp at the time of crossing the shed. The patentee of this invention is Benjamin F. Knowles, of Providence, R. I.

FIRE BRICK OVEN.

This invention consists in a novel arrangement of a furnace, heating flues and escape flues, in combination with a chamber of arched form, whereby a great saving of time and fuel is effected in the baking process, and, by a quick baking at a regular but not too intense heat, fire bricks or other articles of better than usual quality are produced. Louis Auguste Boisson, of Lyons, France, is the patentee of this invention.

TIRE HEATER.

This invention consists in the employment of a cylindrical furnace with a movable top, having two or more concentric chambers in it for receiving tires of different diameters, and furnished with dampers or valves, whereby the draught of the furnace may be conducted through either one of the concentric chambers from a door in the outer box to an escape pipe diametrically opposite to this door. The credit of this contrivance is due to Alfred Ingalls, of Independence, Iowa.

HOISTING APPARATUS.

The object of this invention is to obtain a simple apparatus which is easy of manipulation, by which barrels or any unwieldy cylindrical vessel may be tiered with very little labor. The invention consists in the employment of a derrick with a movable jointed leg, in combination with a prop, whereby the barrels, &c., will be raised perpendicularly to the desired hight and then rolled over on the first tier with a comparatively short derrick. This invention is patented by G. B. Vroom, of Jersey City, N. J., and Solomon Kenzie, of Brooklyn, N. Y.

MACHINE FOR SEWING BOOTS AND SHOES.

The object of these improvements for making stitched boots or shoes by mechanism is to hold the work done on the table or bed plate of the machine as near the awl and needle as possible, and to keep the channel formed on the outside of the outer sole, open, so that the seam will follow closely in this channel, that the raised lip of the channel may be pressed down after the shoe is finished, and present a neat appearance, as if the stitching had been done by hand. The invention also provides for stitching the shanks of the boot or shoe, in which operation the work can be presented to the awl and needle with great facility; and it further provides for keeping the upper from the needle, and for guiding the channel to receive the seam, through the machine; and for sewing light or heavy, large or small work. The patentee of this invention is Francis D. Ballou, of Abington, Mass.

Tempering Steel.

From the large number of inquiries that we have recently received in regard to tempering steel, we think many of our readers will be interested in the following table, which was prepared several years ago by Mr. Stoddart, of England. The steel is to be hardened in the usual way, by heating it to a cherry red, and plunging it in cold water. The temper is then to be drawn by moderately heating the steel again. Different tempers are required for different purposes, and the degree of heat for each of these, with the correen in the table.

sponding color, is given
Very pale straw cellow (43) A space of darker valiow (480) Darker straw gallow (470)
Still darker straw yellow 190° A brown yellow 500° A yellow duged slightly 520° with purple 1520°
with purple 530°. Bark purple 550°.
Dark flue .570° Pale blue 590° Still paler blue 610°
Sill paler blue

The temperrequired for lancets. For razors and surgical instruments. For penknives. Chisels and shears for cutting iron. Axes and plane-irons.

Table knives and cloth shears

Swords and watch springs.

Swords and waren springs.

Small fine saws.

Large saws, the teeth of which require to be set with pliers and to be sharpened with a file.

Too soft a temper for steel instruments.

ISSUED FROM THE UNITED STATES PATENT OFFICE

FOR THE WEEK ENDING JANUARY 22, 1861.

Reported Officially for the Scientific American

*** Pamphlets giving full particulars of the mode of applying for natents, size of model required, and much other information useful to niventors, maybe had gratis by addressing MUNN & CO., Publishers of the Scientific American, New York.

140.—P. J. Ackerman, of Paterson, N. J., for an Improved Combination of Cooking Stove and Air-heating Furnace: I claim the combination and arrangement of the ovens, C.C., fire-pot, B, and chambers, E.H., as and for the purpose set forth.

[The object of this invention is to obtain a combined cooking stove and

air-heating furnace by a very simple and economical arrangement of an incaming furnace by a very simple and communical arrangement of parts which renders the stove more desirable than the ordinary ones while all the advantages of an air-heater is obtained. The invention consists in placing the fire-not of the stove within the ovens, or having the former in direct communication with the latter, and having the ovens ommunicate with hot-air pipes.]

communicate with not-air pipes.)

141.—Wm. R. Axe, of Beloit, Wis., for an Improved Clamping Machine for Carpenters:

I claim the employment of the ratchet bars, E.E. in combination with the rock shaft, b, actuated by a suitable lever and the clamping laws, I, and G, the former being provided with suitable pawls for engagement with the bars, E, and the whole arranged and operating as described for the purposes set forth.

142.—Louis Bauhoefer, of Philadelphia, Pa., for an Improvement in Gum Shoes and Boots:

I claim the combining of pieces of cork with the heel or sole both of a gum shoe or boot, substandally in the manner set forth for the purpose.

143.

specimes. 143.—A. John Bell, of Ashland, Ky., for an Improvement in Steamboat Staging: I claim the arrangement of the staging, C, power windlass. E FG H, and supporting apparatus, $J \times L_i$, the whole being constructed and operating together, substantially as and for the objects set forth.

Per aung tegetner, substantially as and for the **Opects set forth.

144.—G. Bennett and R. Dalzell, of Waddington, N. Y., for an Improved Machine for Tapping Nuts and Cutting Screws:

We claim the combination of the expanding die-box, the revolving plate or blank holder and expanding boil holder, when the same are arranged and constructed, as shown, for the purpose of cutting screws and tapping nuts by the same machine, as specified.

pping nuts by the same machine, as specialca.

15.—A. E. Blood and J. B. Blood, of Lynn, Mass., for an Improvement in Sieves:

We claim the arrangement of the shaft, N, and the supports or bearges, c c, of the sieve with respect to such sieve and its case, when the latt, N, is constructed substantially as described and represented.

146.—L. A. Boisson, of Lyons, France, for an Improve ment in Ovens for Baking Fire Bricks:

Lelaim the arrangement of the Turnace or furnaces, B B, heating flue. es. **B B**, heating flues

I claim the arrangement of the furnace or furnaces, B B, heating flues C C, and escape flues, D D, with respect to each other, and the arched chamber, A, whereby the fleat is first conducted beneath the hearth of theoven, and thence through the oven, all substantially as described.

.—Wm. Chesterman, of Peosta, Iowa, for an Improve-ment in Apparatuses for Evaporating Saccharine Juices:

Juices:
Lalam, first, The arrangement of the train of pans, A B C, the continuous flue, E, running under the whole in succession, and a chimmey at the end of each furthest from the fire, substantially as described.

Second, The arrangement of a water vessel, I, float, J, and lever, K, with the pans, I thes, and chimmey dampers of a sugar evaporator, in the manner substantially as shown and described.

[This invention consists in a certain arrangement of a train of pans in combination with a single continuous flue running under the whole of them, and a separate chimney for each pan, and in a certain system of dampers operated by an automatic regulator applied in connection with the said arrangement of pans, flue and chimneys, whereby a very effective and economical apparatus for evaporating and concentrating cane juice or other saccharine liquids is obtained.

juice or other saccharine liquids is obtained.]

148.—G. F. J. Colburn, of Newark, N. J., for an Improved Evaporator for Hot Air Pipes:
I claim, first. The arrangement of the reflector, C in combination with the evaporating vessel, A, and hot air pipe, B, as described, for the purpose of facilitating the evaporation, and to prevent the dust rising into the apartment.
Second, Constructing the vessel, A, of two parts, a and b, the part, a to be made of porous material, and the part, b, to contain a lamp wick or its equivalent, substantially as and for the purpose set forth.

149.—George Cooper, of Thompsonville, Conn., for an Improvement in Needles:

I claim, as a new article of manufacture, the sewing needle described in the specification, and represented in the drawing.

in the specification, and represented in the drawing.

150.—Reuben Daniels, of Woodstock. Vt., for an Improvement in Machines for Reducing Fibrous Material:

I claim providing the working face of each with pointed teeth, a and c, or their equivalents, secured thereto, and set substantially in the manner described, when operated with a current of fluid passing freely through and towards the periphery, to separate worn out cloths and fibrous material, to reproduce (and not destroy) the longest possible staple in a suitable state for carding, these wheels being made adjustable to, and with each other, substantially as described and for the purposes set forth.

purposes set forth.

151.—N. E. Doane, of Hannibal, Mo., for an Improvement in Weighing Carts or Wagons:
I claim the lever frames, G. G., rod, H., parallel bars, D. D., levers, I. J., graduated beam, K., and frame, L., combined, arranged and applied to a cart or wagon, as and for the purpose set forth.

[The object of this invention is to obtain a simple weighing attachment

for carls and wagons, one that may be applied at a very moderate cost. and enable loads to be weighed very accurately and with great facility.

and enable loads to be weighed very accurately and with great facility.]

152.—Thomas Earle, of Worcester, Mass., for an Improvement in Sewing Machines:

I claim, first, The combination of the feeding hand and nippers with a connecting adjustable link, constructed and arranged as described, whereby a positive lateral vibratory motion is communicated directly from the nippers to the feeding hand.

Second, The combination of the feeding hand, constructed and arranged substantially as described, with an in error spring so arranged as to act on the hand to draw it down in line with its center of motion.

Third, The combination of the pressure pad with the interior spring and sliding rod and examps, the whole arranged substantially as described for the purpose set loads.

scribed for the purpose set forth.

153.—Lewis Eikenberry, of Easton, Pa., for an Improveprovement in Iron Bridges:
I claim, first, A side frame for a bridge having its diagonal braces or
diagonals and uprights constructed of angle Iron, substantially as and
for the purposes set forth.

Second, The combination of double angle iron or U-shaped braces

with single angle iron uprights or diagonals, substantially as and for the purposes set forth.

Third, A side frame for a bridge which has its uprights or diagonals constructed of U-shaped or double angle iron, substantially as described. 154.—George Esterly, of White Water, Wis., for an Improvement in Harvesters.

I claim, first, The combination with the both, et al., which allows the finger bearn. E, to be adjusted in the path of a vertical circle of a curved slotted blandard. G i, the dividing apparatus and a set seriew, k, substantially as and for the purposes set forth.

Second, The combination of the angular adjustable bar, M, curved slotted blandard. He had been set for the purpose described.

Third, The combination with the slotted curved brackets of the angular supporting bar, M, of a bracket, P, a thrust screw Q, a pivoted lever, H, and the divider, F, substantially as and for the purposes set forth.

Fourth, The employment of the said pivoted lever, H, in combination with the divider, F, and the axie, S3, of the grain wheel, I, arranged substantially as and for the purposes set forth.

Fifth, The employment of the vertical pendant tension red, S2, in combination with the reel bearer, S, divider, F, and the grain wheel. Sixth, The combination with the fivider, F of, and thner adjustable wing J, of an outer adjustable wing J, arranged substantially as and for the purposes set forth.

Seventh, The combination of the short angular platform, K, with the continuation, L, and raker symmers, L', facing the platform laterally; the combination with the fine reserved the platform adjustable with the fine propers of the purposes set forth.

Eighth, The combination with the fineer beam, E, and a platform, K, hung on thinges, V V, of an adjusting screw road, N, which forms a hinge connection, one or more knife edge bearings or pivots, Z, one or more screws or bolis, x' x', and a thrust plate or bar, N', substantially as an

George Esterly, of White Water, Wis., for an Im-

provement in Harvesters:

I claim, first, The arrangement of the reel and cutting apparatus obliquely to the side of the driving wheel frame and platferm, M. Fn, when the rear line of the platform is oblique to the driving wheel frame, and its inner corner terminates near the axle of the driving wheel, substantially as and for the purposes set forth.

Second, The arrangement of the thrust or screw rod, I, and curved brace, I, with the dividing apparatus, grain wheel axle, e, and reel support, a, substantially as and for the purposes set forth.

156 .- O. C. Evans, of New York City, for an Improvement

in Lamps:

I claim, first, The combination and arrangement of the gas chamber, A, constructed with horns, tt, and slitted openings, as described, with the openings of the wick tube, at a2 a3, &c.

Second, In combination with the gas chamber and openings in the wick tube of the guards, c c, and petticoat cone, D, the same being arranged in the manner and for the purposes set forth.

I. N. Felch, of Hollis, Maine, for an Improvement in

Hub Machines:
I claim the combination lathe attachment, the arrangement of the reciprocating knife frame, and the vibrating swing feed frame, in the manner and for the purposes set forth, and boring the hub while it is being turned by pressing up the auger through the hollow spindle.

pengurnea by pressing up the auger through the hollow spindle.

158.—F. F. Fowler, of Crane Township, Ohio, for an Improvement in Machines for Gathering Hay:

I claim the arrangement of runners, F. braced as described, with the revolving rake, R. tongue, T. shaft, r. and braces, f. when the several parts have the loose connection described, whereby the machine may conform to the inequalities of the surface passed over, the construction and operation being as set forth.

and operation being as set form.

159.—E. W. Fuller. of Martinsville, La., for an Improvement in Cultivators:

I claim the arrangement of the adjustable bars, E.E., plows, G., rotary harrow, B., and roller, C., with the adjustable bars, D.D. transverse bars, a, and frame, A, all in the manner and for the purpose shown and described.

[The object of this invention is to obtain an implement of simple con-

struction that will admit of the plows being adjusted both vertically and laterally, and, at the same time, admit of the use of either ordinary wheels or of a roller and revolving harrow, and a seed-distributing at tachment, when required; the whole forming a very compact, efficient and economical implement.

and economical implement.

160.—G. G. Gabrion and N. B. Whitney, of Copenhagen,
N. Y., for an Improved Stave Jointer:

We claim the combination of the planes, 1 and 2, secured in the
frame, 4, and made adjustable, in the manner described, with the carriage, 7, sliding on the rood or shaft, 6, all being constructed, arranged
and operated substantially as set forth.

161.—John Griffin, of Louisville, Ky., for an Improvement

in Cotton Pickers:
I claim the arrangement for joint operation of the tubes, A F I, valves, C d, and pipes, I m, essentially as and for the purpose set forth.

[This invention relates to certain improvements in cotton picking

crops, for which Letters Patent were granted to this inventor, bearing

crops, for which Letters Patent were granted to this inventor, bearing date March 8 and Nov. 22, 1859.]

163.—Robert Heneage, of Buffalo, N. Y., for an Improvement in Hemp Breaks:

I claim the arrangement of the secondary brake, F, with the brakes, C C' in combination with the dressers, G G' and the gearing for reversing the motion of the machine, so that the parcel of hemp, as it passes through the brakes, will be bent at right angles (or nearly so) and directed downward to the dressers, the brakes operating and holding on to the parcel of hemp while the dressers are performing their work, substantially as set forth.

164.—C. L. Herring, of St. Louis, Mo., for an Improvement in Gas Regulators:

I claim the application of the curved plates, a a, to the flexible diaphragm, C, substantially as described, for the purpose specified.

165 .- Edward Holmes and Britain Holmes, of Buffalo, N. Y... for an Improvement in Stave Machines:
We claim, first, The endless revolving iron bed, A, constructed of inited links, and having stops, a/, in combination with cams, whose elective must be increased or diminished according to the length of the

velocity must be increased or diminished according to the length of the stave to be dressed.

Second, The arrangement of the jointers in frame, L, said frame being operated by levers which have a connection to a cam, which can have a horizontal adjustable movement upon its shaft, so that the revolution of the cam (through the arrangement of the levers) will communicate the state of the property of the purposes set forth. cate a reciprocating movement to the jointers, for the purposes set forth.

Third. The combination of the adjustable lever, n. with the frame. L.

Third, The combination of the adjustable lever, in with the frame, L, and hook or rest, V, for the purpose of giving different widths to staves, substantially as described.

Fourth, The arrangement of the frame, R, including the cutter, T, with the other parts of the machine, substantially as described, so that the said frame will have a periodical movement which will cause the stave to be chessed thinner in the middle portions thereof than it is at the ends.

the said frame will have a periodical movement which will cause the stave to be chessed thinner in the middle portions thereof than it is at the ends.

Fifth, The arrangement of the gages, 1234, &c., in combination with the lever, u, and rest, v, for the purpose of locating the rest, v, in the proper place to bring the lever, h, to its proper angle, to give the required width of stave.

166.—Alfred Ingalls, of Independence, Iowa, for an Improved Tire Heater:

I claim combining with the horizontal circular furnace described, the inside concentric partitions, D D, movable covers, C C C, the dampers, e and g, and supporting reds, p p p p, all arranged substantially as and for the purposes described.

167.—Charles Irwin, of Buffalo, N. Y., for an Improvement

in Sewing Machines:

I claim the adjustable arm, b. on the front end of the shuttle carrier, a combination with the spring f, for guiding and protecting the needle nd its thread, as set forth.

and its thread, as set forth.

168.—William Jarrell, of Trenton, Tenn., for an Improvement in Plows:

I claim the combination of the landside, B, sockets, and f, belt, c, and nut, g, constructed, arranged and operating in the manner and for the purposes set forth.

This invention consists in a peculiar manner of securing the land-

side of a plow, the advantages being facility in casting, perfect security when in position, and ease of removal for repair or substitution.]

-Levi Jewell, of Stratham, N. H., for an Improvement

in Fire Escapes:
I claim combining with a shade fixture the metal reller, C, heaps, E, set screws, a a, and cords, GH, with the covers, g g stantially as and for the purposes described.

The object of this invention is to combine with the roller of an ordinary window shade a means for escaping from the building in case of fre. The invention also prevides for removing articles of furniture from the upper stories of buildings in case of fire. The invention consists in the use of a metal roller, furnished with pullevs for rolling up and unrelling the shade, and hung in streng metal brackets, se constructed that a brake can be applied to the roller. The fire es cape consists in the employment of two ropes of a suitable size, which wound around the roller, and when not in use, are covered with a metal casing; but when they are in use, one rope will unwind from the reller, while the other winds upon it.]

D. G. Kettell, of Worcester, Mass., for an Improved Harness for Preventing the Fore Legs of Horses from

Interfering:
I claim my new method, substantially as described, of preventing a rse while traveling from injuring one fore leg with the hoof of e other, as well as of breaking the horse of such bad habit, a same being accomplished by a guard arranged and suspended near close to the breast and between the legs of a horse, and to operate as ecified.

171.—D. A. King and T. Norris, of Lexington, Ky., for an Improved Dove-tailing Machine:

We claim, first, The being bits, dd, and sliding bench, I, in combination with the chiselbits, www. when constructed and arranged to operate together in forming the peculiar mortises on Z, Fig. 4, substantially in the manner specified.

Second, We claim the combination and arrangement of the tenening bits, ee, the sliding bench, K, and the adjustable stop, y, constructed and operating substantially as and for the purpose set forth.

172.—B. F. Knowles, of Providence, R. I., for an Improve-provement in Harness Motions for Looms:

I claim, first, The employment for supporting and operating the harness, of cenes of pulleys arranged with their axes parallel with the vibrations of the lay and the larger pulleys of the conest oward the rear of the loom, substantially as specified.

Second, In combination with a herizentally vibrating lever, I, connecting with a belt or belts, if, for driving the harness, I claim a grooved cam, J, so constructed as to praduce a slower movement of the harness at the time of the crossing of the shed, as compared with its movement in the earlier and later stages of the opening and closing of the shed, substantially as described.

173.—J. H. La Bau, of New York City, for an Improvement in Machines for Finishing Hats:

I claim, first, The levers, M M' M'', with the heater, m, brush, n, and sponge, o, respectively attached, the arms, J J' J'', screw shaft, B, provided with the hat block, C, and the bar, H, provided with the nut, arranged for joint operation, substantially as and for the purpose set forth

or language to just we leave, assistantify as and to the papers see rorthond. The fusee-shaped projection, K', on the disk, K, red, P, connected with the shaft, • en the slide, •, also cannected to said shaft, and provided with the upright projection, at the above parts being arranged substantially as shewn connects and active the said shaft of the hat, as set for the hat are specified. Third, The arrangement, when used in connection with parts above named, of the pulley, E, and disk, G, the former being fitted lossely on the socket, D, and the latter previded with the pendants, b, which pass through the pulley substantially as described, whereby the shaft, B, nay be rotated and allowed to rise as it rotates, for the purpose specified.

[The object of this invention is to obtain a machine by which silk or fur hats may be finished, that is to say, sponged, brushed and ironed automatically, the whole mechanism necessary to perform the work being put in metion by the rotation of a single shaft:]

174.-A. B. Lefler, of Canton, Ind., for an Improvement in

CHILIVATUITS:

I claim the described combination of the bent beam, B, reversible shares, E E', and standards, D D', with the brace, C, and washer, F, the said parts being constructed, arranged and connected in the manner and for the purposes described.

175.—C. B. Loveless, of Tom's River, N. J., for an Improvement in Vapor Lamps:
I claim the combination with the wick tube, T, of the crescent-shaped ,s chamber, C, having the burner, B, and the elongated heat conducting rings, R, performing the double function of generating gas and aiding in the lateral spreading of the flame; the whole being constructed and operating substantially in the manner and for the purpose set forth.

T. J. Mayall, of Roxbury, Mass., for an Improvement

in Polishing Tools:

I claim, as a new article of manufacture, the tool described for polishing shafts, rads or other objects of cylindrical or round formation, and capable of revolution, the same consisting of two pieces provided with corresponding cavities, and hinged together to admit of their being separated and brought together for operation, as described, the polishing surfaces being composed of india-rubber or gutta-percha, or of the various compositions of these with which emery, sand, gass, or other suitable gritty substance is incorporated, substantially as set forth.

177.—J. B. McCormick and W. R. Baker, of St. Louis, Mo., for an Improvement in Hemp Brakes:

We claim the combination of the endless belt, k, with the radially sliding armed bars, f, as and for the purpose shown and described. We also claim giving a lateral invenent to the said radially sliding armed bars, f, in the manner and for the purposes shown and de-

This invention consists in the employment or use of a rotating drum provided with spiked or toothed bars, and stationary or operated in a previded with spaced or oscilled bars, and satisfact preparated in some way, in connection with an endless slatted apron arranged to operate conjointly with the drum, whereby the hemp may be heckled and scutched or cleaned very expeditiously and without injury to the

178.—Hiram McDonald, of Union Springs, N. Y., for an Improvement in Wood-bending Machines:

I claim the eccentrics, I m, sliding plates, • p, slides, tu, and the keys, rs, placed at the outer parts • f the beds, F F, and arranged substantially as and for the purpose set forth.

This invention has for its object the bending of steamed wood, such wagen bews, felloes, &c, into preper shape, by a very expeditious and simple means, and in a perfect manner.]

179.—D. S. Morgan, of Brockport, N. Y., for an Improve-

ment in Harvesters:

I claim the combination of the peculiarly curved reel support, A, with the herizental arm, E, and supplementary divider, D, when the whole are arranged relatively to each other and to the frame of the machine, substantially as described, for the purpose set forth.

180.-D. A. Morris, of Pittsburgh, Pa., for an Improvement

in the Manufacture of Sheet Iron:
I claim the application of carbonaceous material prior to heating the iron (without removing the iron scale or black oxyd from the surface of the sheets), and forthe purpose specified.

181. G. C. Munson, of New York City, for an Improvement

in Tucking Gages:

I daim an instrument or implement forming a tucking gage for attachment to a sewing machine, essentially as described, and having for its elements the combination of clamping plates, or a riamping plate and bar or roller, or equivalent devices, constructed to hold the could at any desired width of tuck with a gentle pressure from the edge throughout the width of tuck, a device or means for regulating the pressure of the clamping plates and varying their width apart, an outside guide to the folded edge of the cloth; adjustable at pleasure, and a device or means for urging the electh up against said guide, all for operation together, substantially as and for the purpose or purposes set forth.

182.-J. Y. D. Murphy, of Half Moon, Pa., for an Improve-

ment in Corn Planters: In first, The combination of the reciprocating seedchamber, T, pener, V, and sliding bettem, b, arranged and operating substantially

space, v, and studing below, b, arranged and operating substantially as and for the purposes set forth. Second, The arrangement of cutter, t, comb, k, horizontal cutter, V, side plates, M, depositing chamber, T, conducting tube, p, shaft, E, spring, a, bar, H, and slide, J, substantially as set forth

183.—Arthur Neill, of Boston, Mass., for an Improvement in Mold for Shaping India-rubber Pencil Heads:
I claim a mold composed of a core plate, C, with its cores, a a a, matrice plate, B, and a cap plate, A, combined and arranged together substantially as described and for the purpose set forth.

184.—F. H. Purington, of Willimantic, Conn., for an Improvement in Drawer Alarms:
I claim the catches, G, arranged relatively with the springs, D, as hown and used in connection with the slide, F, to operate as and for the purpose set forth.

[The object of this invention is to obtain an alarm for tills and drawers which will give warning when an illegitimate attempt is made to epen them, and at the same time will cause the tills or drawers to be locked so as to prevent them being opened except by a key, thereby obviating

the contingency of a successful illegitimate result by repeated trials.]

1.85.—L. C. Rodier, of Springfield, Mass., for an Improve-ment in Tool Handles: I claim a handle for awls or other tools having the ferrule, B, and crew cap, C, ombined and operating in the manner and for the pur-

186.—T. W. Roys, of Southampton, N. Y., for an Improvement in Harpoon Guns:

I claim, first, Encircling the barrel of the gun with one or more transerse flanges, B., provided with valves, C. for the purpose of protecting he face of the gunner, and at the same time enable him to take his

signt.
Second, I claim placing before the rear end of the barrel a stop to receive the back fire of the rocket, substantially as described, for the

receive the back fire of the rocket, substantially as described, for the purpose specified.

Third, I claim the long bar, m, across the top of the link, n, to prevent the harpoon-from being forced clear through the whale.

Fourth, I claim the went hale, v, in the front end of the barrel, for the purpose of clearing the value, it, in the manner described.

Fifth, I claim the channel, K, on the gun barrel through which the hook, J, travels, so as to catch the link, n, in the manner described.

187.—Samuel Schuyler, of Brooklyn, N.Y., for an Improve-ment in Grain Dryers:

I claim the cembination of the series of platforms, B, with the eleva-ters, M and N, as set forth, and for the purpose described.

-William Sellers, of Philadelphia, Pa., for an Improvement in Ovens:

ment in Ovens:

I claim, first, The arrangement of the cars or pans in the oven in two series, she ascending and the other descending, substantially as described, in combination with the means described, or the equivalent thereof, tritansferring from the ascending to the descending series within the oven, and with means for inserting and discharging at or near the bettem of the oven and on one side thereof, substantially as described, and of the purpose specified instrument for measuring time. Second, also claim machinery or which operates the oven, in the manner substantially as specified and for the purpose set for the manner substantially as specified and for the purpose set for the manner substantially as specified and for the purpose set for the manner substantially as specified and for the purpose set for the manner substantially as specified and for the purpose set for the manner substantially as described, the employment of the blower partition, substantially as described, the employment of the blower, or equivalent means, ferforcing in a current of air at or near the top, substantially as described, the required.

189.—Oliver Sweeney, of Norwich, Conn., for an Improved Knife Cleaner:

KINITE OF CARLET:

I call a knife cleaner having in combination a clamp, A, and a perrated reversible beard, B, constructed and operating in the manner
id for the purpose described.

This invention consists in the arrangement of a clamp which serves It is invention consists in the arrangement of a camp, when serves to retain the handles of two or more knives, in combination with a supporting perforated platform, in such a manner that, when the clamp with the knives is placed on the platform, the blades of the knives rest that on said platform in the proper position for being cleaned. Several dezen of knives can he cleaned by means of this device simultaneously and by one operation.

190.—Jeremiah Sweitzer, of Mishawka, Ind., for an Improvement in Plows:

I claim the arrangement of the beam, B, handles, a a', landside, b, standard, e, and brace, c, with flanges, s, the whole constructed as and for the purposes set forth.

31.—A. C. Teubner, of New York City, for an Improved Composition for Rendering Textile and other Fabrics Air and Water Tight:
1 claim the composition made of the ingredients, and prepared in the namer and used for the purposes recited.

nner and used lot the purposes recited.

.—H. L. Thistle, of New York City, for an Improved.

Spring Bed Bottom:
claim the arrangement of the helical springs or crossbars, substanyas described, in combination with the longitudinal slats above m, substantially as described.

G. B. Vroom, of Jersey City, N. J., and Solomon Kinzie, of Brooklyn, N. Y., for an Improvement in Machines for Hoisting Barrels and Placing Them in Tiers or Rows:

There or Kows:

In combination with a derrick resting on four legs or supports, two
which are stationary and the other two supported on wheels, as deribed, I claim the frame, B and By, when the whole is constructed and
oplied substantially as described for the purpose setforth.

194.—Joseph Warner, of New Britain, Conn., for an Improved Kettle Handle:

Lelaim a handle for lifting vessel sthat is composed of a curved porion, A, having a tongue and shoulder, a b, at its upper end, which form shette grasp the edge of the vessel, the whole made as shown and de-

culinary department handles are very objectionable, particularly such handles as are soldered or riveted to the sides of the vessels. The object this invention is to furnish a handle which may be readily attacl or detached from such kettles, and which will answer every purpose of the ordinary handles that are fixed permanently to the kettles.]

-Sarah Jane Wheeler, of New Britain, Conn., for an

Inprovement in Curry Combs:
I claim the combination of single sheet metal bars of curry combs, having concave back edges of a sufficient degree of curvature to give the necessary firmness and strength without the assistance of side projections or supports, but having rivet projections thereon, with a back of cerresponding curvature, so as to fit the concave back edges of said bars, and either made of a single piece so as to be "close," or of separate pieces so as to be "close," or of separate pieces so as to be "close," and all the bars, substantially in the manner and for the purposes specified.

196.—H. S. White, of Newport, R. I., for an Improvement in Newspaper Files:
I claim the employment or use of the button, C, and staple, D, attached to one of the simps, in connection with the loop, E, and eye, H, attached to the table ord. when, C, as and for the purpose specified.

[The object of this invention is to obtain a paper and letter file which

will admit of papers and letters being readily adjusted in it, and in such a manner that the folios or double sheets will be firmly clamped side by side, precisely the same as if they were bound in a book, thereby a voiding the inconvenience of turning over a number of leaves in order to find consecutive pages, as is the case when the sheets are placed and secured one within the other, in the ordinary paper and letter files.] -W. C. Willey, of Princeton, Ill., for an Improvement

in Corn Planters:
I claim the arrangement of the hoppers, F, oscillating perferated shell, G, hoies, f, plates, g, vibrating bar, J, and levers, L K, with the seed tubes, H, plates, I, shares, D, jointed frames, A C, bars, b b, uprights, c, prejections, m, and rollers, B, in the manner and for the purpose shown and described.

The object of this invention is to obtain a simple and efficient machine for planting corn either in hills or drills, and at a greater or less depth, as may be required. The invention also admits of having its seed-distributing apparatus operated automatically or manually, as may be desired, and without the liability of choking or clogging.]

198 .-- W. H. Auld (assignor to himself and R. C. Brown).

198.—w. H. Auld (assignor to himself and R. C. Brown), of Fairfield, Iowa, for an Improvement in Circular Sawing Machines:
I claim the arrangement of the pivot, a upon which the adjustable frame, C, turns, in front of the cutting edge of the saw, E, as shown and described, whereby the angle of the face of the saw blade may be varied at pleasure without changing the position of the cutting edge, all as set forth.

[This invention consists in arranging the saw in such a way that the ne may be adjusted in the most ready manner to prevent its binding in the kerf or marring its work.]

199.—F. D. Ballou (assignor to himself and J. L. Nash), of Abington, Mass., for an Improvement in Sewing Machines:

I claim, first, The construction of the presser, D, with separately-adjustable foot plates, C. C', as shown and described.

Second, The curved bearing plate, B, with its lip, c, in combination with the presser bar, D, and foot pieces, C. C', arranged as and serving for the purposes set forth.

Third, The arrangement of the separately-adjustable foot plates, C. C', with the curved plate, B, openers, G. G', and disk, E, in the manner shown and described.

200.—W. B. Bartram, of Norwalk, Conn., assignor to A. S. Dodd, of New York City, for an Improvement in Fare

Bodd, of New York City, for an Improvement in Fare Boxes:
I claim the giving of exact change, as desired, by means of tubes, A, adapted to different coins, in combination with the open valves, D, levers, B, and springs, E, constructed and operated suisfantially in the manner and for the purpose set forth.

And, in combination with the above, I also claim the money box lever, M, movable plate, U X, bell, J, and register, K—the whole being constructed and operated substantially in the manner and for the purpose set forth.

201.—N. S. Bean (assignor to the Amoskeag Manufacturing Company), of Manchester, N. H., for an Improvement in Picker Staff Motion:

I claim the arrangement and combination of the rocker of the picker staff within the link and upon the piece, e, when the rockers and link are higed and are operated upon by a spring, and the link is provided with guiding ears, g.

.—Albert Bellingrath (assignor to himself and Leonard Bellingrath, Jr.), of Atlanta, Ga., for an Improvement 202

in Pumps: I claim the construction and arrangement of the piston, B, cylinder, , wedge, D, in the manner and for the purposes set forth.

203.—A. H. Brown (assignor to James Burton), of Albany, N. Y., for an Improvement in Machines for Cutting Wooden Moldings:

I claim the arrangement of the sliding tool holders, D E F, cutters, N, springs, G, frame, O, and pattern, P, with the carriage, B, levers, H, bar, K, and bars, L, as shown and described for the purposes set forth.

This invention has for its object the ready forming of moldings on the face of frames, or similar work of oval or circular form, which may be forming of moldings on frames for glasses, pictures, and the like, but alse for cutting meldings on segments or sections of evals and circles. used for architectural purposes

205.—J. T. Bruen, of Brooklyn, N. Y., for an Improvement in Sewing Machines:
I claim needle helder, r, jointed by a double joint to the permanent frame moved and held up to its place by the socket joint arm, u, and spring constructed and arranged as described, and the hook, t, combined with the lower needle in the manner and for the purposes set

.—A. F. Johnson, of Boston, Mass., and J. E. Bartlett, of Stoneham, Mass., assignors to I. M. Singer and Edward Clark, of New York City, for an Improvement in

ward Clark, of New York City, for an Improvement in Sewing Machines:
I claim the combination in the same machine of two needles with a shuttle in such a manner that the needles form two parallel rows of stitching, and that the shuttle reciprocates across the line of direction of the feed motion, and connects the two rews of stitching by the shuttle thread, substantially as described, so as to form a compound seam of three threads presenting two separate rows of stitching on one surface of the material sewed.

face of the material sewed.

206.—Josee Johnson, of New York ('ity, assignor to himself and John Ward, Jr., of Brookly:, N. Y., for an Improvement in Stilts:

I claim a stilt constructed of two pieces, A and B, joined together by a metal socket, C, in such a manner that the part, A, receives the strain in the direction of its length, and the socket, C, also serves for the foot rest or step, substantially as and for the purposes described.

207.—S. W. Langdon (assignor to himself, Hiram Wells and D. G. Littlefield), of Northampton, Mass., for an Improvement in Sewing Machines:

I claim preducing tension upon the shuttle thread, by means of the pressure plate, i, and spring, g, constructed and combined substantially as described.

208.—John McMurtry, of Fayette county, Ky., assignor to I. A. Bostwick, of Lexington, Ky. for an Improvement I. A. Bostwick, of Lexington, Ky. for an improvement in Fire-places:
I claim the combination of the ribbed or corrugated back with the air thamber and registers, as shown in the accompanying drawings, substantially as described and for the purposes set forth.

95.—J. P. Reynolds, of Mirabile, Mo., assignor to H. H. Robertson and C. G. Carr, of Kingston, Mo., for an Improved Harness for Shoeing Horses:

I claim the combination of the straps, e c c' and v, cords, 1 u, and ovable post, s, the said parts being applied, arranged and secured subantially as and for the purposes set forth.

[This is an ingenious device for securing wild or vicious horses while ing shed.]

Quartus Rice, of Nevada, Cal., assignor to Lorenzo Rice, of West Winsted, Conn., for an Improvement in

Rice, of west winsted, Conn., for an improvement in Sewing Machines:

I claim, first, The combination with a sewing machine of any suitable construction, of the gage, K K', constructed and operating substantially as set forth, to produce continuous tubular work.

Second, The adjustable guide rollers, N N, sperating in combination with the gage, K K', substantially as and for the purpose set forth. Third, The general combination of the feed markings, G H I M, sewing mechanism, A B C D, gage, K K', and Colors, N P, arrunged and sperating substantially as and for the purposes set forth.

[This machine is adapted to form continuous tubular work of any desired diameter and of indefinite length, for hydraulic hose or other uses.1

211.—G. J. Wheeler, G. W. Dunnell and William Sharp
(assignors to J. C. Beach), of Bloomfield, N. J., for an
Improvement in Paper-making Machinery:
I claim the use, in press rolls, of the perforated roll, D, in combination with the telts, K and S, which carry the pulp between them, substantially in the manner and for the purposes described.

212.—J. W. Spragne, of Rochester, N. Y., assignor to himself, G. B. Redfield, trustee (for the benefit of C. Gates), James Jones and A. W. Tyrrell, of same place, for an Improvement in Fire-escapes:

I claim, first, The braces, C. C. coundined with the levers, A. A. and struts, B. B., when the same are constructed and expectated substantially as described for the purpose aforesaid.

Second, The combination of the planforms, M. M., the ladders, L. L. and the guidebars, N. N., when the same are constructed and operated substantially as described.

Third, The combination of the upper platform, •, the revolving platform, P., and the sliding platform, R., snostantially as described.

Fourth, The attachment of the wagon frame to the axles in such a manner as to allow the wagon frame to the leveled, by means of the sliding wedges, Y. Y., substantially as described.

Fifth, The arrangement of the cause, I. I., in combination with the ratchets, H. H., and with the brakes, in such a manner that the act of rasing the ratchets shall tighten the brakes, substantially as described.

RE-ISSUES.

RE-ISSUES.

25.—Samuel Barley and J. H. Barley, of Longwood, Mo., for an Improvement in Harvesters:
I claim, first, The arrangement of the oblique bars, $a^{\mu} z^{\mu \mu}$, of the frame, the latter bar, $a^{\mu \mu}$, extending over or within a vertical line with the shoe or lover part, b^{μ} , of the frame, D. in connection with the long axie, B, with the driving and grain wheels, A. A., on either end, as and for the purpose set forth.

Second, The arrangement of the rake bar and head, e' e'', to operate in combination with the guard plate, S, crank, A. shofts, e' Q, and platform, I, as shown and described.

Third, We do not chaim broadly the invention of the divider: but we do claim the arrangement of the horn-shaped divider, T, to revolve, so that it can be adjusted to any desired position in the manner shown and described.

described.

26.—Willis Humiston, of Troy, N. Y., for an Improvement in Machines for Molding Candles:
Lelain, first, The combination of the caudle tip mold, a, with the drive rod, D, as and for the purposes described and set forth.

Second, The combination of the said candle tip mold, a, connected and combined with the drive rod, D, with the candle mold or tube, B, as and for the purpose set south and described.

Third, The clamping of the candles in the position in which they are driven or forced from the molds or tubes, B, and thus and thereby holding them during the operation of casting or molding canties in the said molds or tubes, B, directly below, until the said candles in the said camps are ready to be removed therefrom, substantially as described and set forth.

Fourth The adjusting and belating the rest.

clamps are ready to be removed therefrom, substantially as described and set forth.

Fourth, The adjusting and holding the wick (for the caudles) in the center of the said nodes or tubes. B, by the use of the said clamps, F and the caudle therein flying secured by means thereof, in connection with the said candle tip mold, a, anached to said drive rod, D, substantially as described and set forth.

tially as described and set forth.

27.—Willis Humiston, of Troy, N. Y., for an Improvement in Apparatuses for Molding Candles:
I I claim, first, The wicking the candle molds, A, by means of the grapers or pinchers, D, in connection with the real or speed communing the wick below, as described and set forth.

Second, I also claim the suspending of the candles in and upon a center line with the molds, A, directly below, by means of the gipters or pinchers, D, in connection with the tip of the said mold, as and for purpose described and set forth.

Third, I also claim the griping of the candle wicks, by means of the said gripers or pinchers, D, or their equivalents, and by the same drivering the candles from their respective molds and suspending the same above the molds until the next series of candles are molded and the suspendent are cut from the wick and removed in the manner and to the purpose described and set forth.



- S. A. W., of Mass.-We thank you for the list of names you send us. We do not think your hand power attached to a churn, of any other domestic machine like a washing or sewing machine, it patentable; but if you desire it, we can have an examination made at the Patent Office, and thus be able to give you more satisfactory advice. The price of the examination is \$5. A number of patented straw-cutters have the knife arranged on a wheel, so adjusted as to make a drawing cut. In some of the early volumes of the SCIENTIFIC AMERICAN you will find engravings of such machines.
- R. R. T., of N. Y.—India-rubber varnish, made by dissolving india-rubber in henzole, is suitable, we think, for protecting the seams of glass door plates and preventing the entrance of moisture. India in gass took pares and preventing the entrance of mousture. In the rubber dissolves in turpentine, but the variash thus mades dries ver slowly. To make a superior black japan varnish for iron work, tak 50 lbs. of asphaltum and 8 lbs. of gum anime, and fuse them together in an iron vessel. In another vessel place 12 gallons of drying linseed oil and bring it to the boiling point; then pour this among the fused asphalt and gum, and boil them all together with effectual stirring until they are completely incorporated and have attained to a ropy consistency; take it off and cool, then thin it down for use with spirits of turpentine. It should be applied to iron work in several successive coats, each of which should be thoroughly dried in an oven heated to 212° or 300° Fab. The addition of some "amber varnish," made with amber boiled in linseed oil, greatly improves common asphalt varuish,
- but increases its expense.

 A. T., of Canada.—Your plan for superseding the negro minstrels by a band of singers dressed in burlesque costume to repre sent different nations, we have no doubt would be a very profitable enterprise if well managed. The community is always ready to pay for good simple music. There would be no possibility, however, of your obtaining a grant for an exclusive right to the business from the United States government. Exclusive rights are granted only by general laws, and the idea is not patentable. The right of acting any original play may be secured under the copyright law.
- J. V. B., of Ind.—We did not receive your plan of a school house. 'The waterraised by an Archimides screw discharged upon a water wheel would not turn the wheel with sufficient force to work the screw. It would just do it provided there was no friction of the ma chinery or of the water in its passage through the tube, uor any other resistance except mere gravitation, and provided that the water could be discharged upon the wheel so as to utilize its whole power. Even then you would barely raise the water, and would have no surplus
- P. D. G., of Minn.-To harden a steel plowshare without having it twist, prepare a bath of naphtha heated to 200° Fah., and after heating vour steel, as usual, to a cherry red, plunge it into the bathfill the naphtha boils, then withdraw it and plunge it into cold water. Draw the temper in the usual manner.
- J. S., of Pa.-You can buy steel punches with letters on their ends, formaking stamps, at William Ward's, 47 Chatham-street, this city, for 18 cents apiece. These are tapered at their lower end, but he will have them made for you in the form of type, at about the same price. These punches, as well as the stamps, are made by men who have learned their art, like any other trade.

- J. M. L., of Ind .- You can make the india-rubber cement. nursel, for shoe soles, by dissolving shreds of india-rubber in refined repentine, or, what is better, in good naphtha. Gutta-percha dissolved in naphtha makes a good cement also. We do not know where
- C. W., of N. Y .- A horse power is a power which will raise 33,000 lbs. one fost high in one minute. The machinist's trade is a very good one for a boy to learn. It would be well for him to get as an education as possible before going to his trade
- S. C., of Ind.—Boiled linseed oil is the best substance known to us for making waterproof tarnaulins. Resinvarnishes will not answer for this purpose, because they become quite hard when
- R. M. G., of N. Y .- Large numbers of envelopes are manufactured with business cards in water lines upon their face.
- E. G., of Conn.—The only effect of the crank motion the power, is that of increasing the friction in certain parts of
- G. W. T., of Del.-A continuous motive power cannot be obtained from a permanent magnet. Was not the machine which you saw driven by steam or so ne other power?
- N. S. B., of Ill., and J. W. H., of lowa.—Our opinion coincides fully with yours in regard to the economy of worl esivriy in high pressure engines
- J. F. W., of Wis.—Your plan for superseding flat belts with ropes, for driving machinery is objectionable on account of the increased friction. It is surmasing how little disposed a belt is to shu pathog; there is no difficulty from this source
- W. P. K., of Mass.-The hight to which mercury would rise in a thermometer tube $\frac{1}{18}$ incholore, subjected to a temperature of 12° Fab., would depend on the size of the bolb.
- of Pa.-Glass blowers split up long cylinders of glass by first drawing a red hot rod of from along each cylander on the thin in which it is to be divided, then snapping it between the thum and fingers of the two bands. By this mode, you can divide you long glass tubes into several short ones.
- A. McE., of N.Y .- We really do not know how you can unite cast iron with wrought iron "perfectly," in a mold, by ponring the cast around the wrought iron, unless the latter is; heated to about the welding temperature. Wrought from rods, for railings, are the dait their intersecting points, with east from run round the rods in small. hard molds; but although this method holds them together more firmly than simple riveting, still the two metals are not fused to
- J. M. G., of Ohio.-No power is lost by yoking the cranks of two piston rods in line with the shaft of a saw mill. The cranks of two engines are usually yoked at right angels to one another, to produce regularity of motion.
- T. B., of Ind.—We believe that a patent may be obtained for treating molds for gold castings, as you have described, if it is found to be an improvement on the common modes of casting. All the engines of steamships are fitted with counters which indicate the recolutions of the main shaft during each voyage; you therefore could not obtain a patent for such an instrument. No advantage would be secured by coating iron telegraph wires with copper; better use solid copper wires which have just eight times the conducting capacity of
- A. M. O., of Wis .- The substance which you send us is clay colored with peroxyd of from It is worsidess except, perhaps, for making brick,
- H. M. H., of Pa.-We are not able to give you the names of the principal operators at the oil mills at Frankli
- S. T. R., of N. Y .- The aerophon is essentially the same instrument as the callege. It consists of a series of steam whistles, of different sizes, to sound the several notes of the gamut, with valves and keys to let the steam into such as may be necessary to produce The music desired. It was patented by J. C. Stoddard, in the States and Great Britain,
- M. Q. P., of Mass.—The old way of polishing cabinet work without varnish, was by rubbing over its surface with a little sweet oil, then rubbing down vigorously with a cushion of silk; an old silk handkerchief would answer your purpose
- A. J. B., of Kansas.-The pencil point which you have sent us appears to be composed of tin and lead. Without a chemical analysis, it would be impossible to tell its real composition.

Money Received

At the Scientific American Office on account of Patent Office business, for the week ending Saturday, Jan. 26, 1861:-

H. & N. H. of N. Y., \$30; T. D. I., of Mich., \$55; S. F., of Pa., \$55; R. & McC., of N. Y., \$40; T. H. G., of Wis, \$100; E. C., of Conn., \$32; M. S., of N. Y., \$55; A. M., of N. Y., \$150; C. T. S., of N. Y., \$30; J. A. M., of Mo., \$30; A. R., of Mich., \$25; S. & R. W. C., of Ohio, \$25; J. E. T., of N. Y., \$159; N. & S., of Conn., \$10; D. K., of Pa., \$25; L. J. E. T., of N. Y., \$159; N. & S., of Conn., \$10; D. K., of Pa., \$25; L
 M., of Wis., \$55; J. M. R., of Ky., \$30; J. S. S., of N. Y., \$55; O. S. Jr. of Vt. \$25; F. C. T., of N. Y., \$25; S. McL., of N. Y., \$30; D. M. C., of Ind., \$20; A. L. W., of N. Y., \$20; T. C., •f N. Y., \$48; J.ŁO., Jr., of N. H., \$20; S. & S., of N. Y., \$30; E. P., of Conn., \$55; L. R., of Conn., \$64; S. & R., of N. Y., \$30; A. D. B., of Mass., \$25; S. T. B., of R. I., \$100; A. M., of Maine, \$35; F. D., of Ohio, \$25; T. & E., of Pa., \$30; J. M. W., of N. Y., \$40; J. E., of Maine, \$30; B. R., of N. Y., \$30; J. & D. B., •f N. J., \$25; C. & C., •f N. Y., \$25; S. McL., of N. \$25; G. S. T., of Mich., \$25; J. S., of Texas, \$25; B. R., of N. Y., \$21; 525; C. G. D., of N. Y., \$25; L. D. S., of N. Y., \$30; E. T. C., of Mass. \$25; S. K. W., of N. Y., \$10; F. D. B., of Mass., \$25; W. H., of Iowa, \$21; L. & M., of N. Y., 25.

Specifications, drawings and models belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Jan. 26, 1861:-

R. & McC., of N. Y.; L. P., of Conn. (2 cases): D. K., of Pa.: H. D. of Ohio; A. M., •f Maine; A. D. B., of Mass.; J. M. R., •f Ky.; T. C., Jr., •f N. Y.; S. & R. W. C., of Ohi•; R. S., •f N. J.; J. & D. B., •f N. J.; E. P., of Conn., J. S. S., of N. Y.; J. R. R., of Mass (3 cases); J. & A. J. R., of Mich.; O. S., Jr., of Vt.; J. M. P., of Ohio; C. & C., of N. Y.; W. F. S., of Ohio; E. T. C., of Mass.; S. McL., of N. Y.; T. & I., of Mich.; B. R., of N. Y.; J. S., of Texas; W. W. V., of Cal.

New Books and Periodicals Received.

NEGROES AND NEGRO "SLAVERY:" The first an inferior Race; the latter its Normal Condition. By J. H. Van Eyrle, M. D. The above work has been; a ceelved from the publishers, Van Eyrle, Horton & Co., No. 162 Nassaustreet, New York.

Horton & Co., No. 162 Nassaut-street, New York.

THE ALLAYDE MONTHLY, for February.—Published by Ticknor & Fields, Boston.

The "Professor's Story." Dr. Holmes gives this opinion of a kiss:

So Mr. Bermurd thanked Helen for her interest without the aid of the twenty-seventh letter of the alphabel—the love labial—the limping consonant which it takes two to speak plain."

THE AMERICAN JOURNAL OF PHOTOGRAPHY.—Edited and published by Charles A. Scely, No. 424 Broadway, New York. The editor's therotigh mastery of the art and science of photo graphy, as well as the kindred sciences, gives a peculiar reliability to the statements of this journal.

ments of this journal.
BIBLIOTHECA SACRA AND BIBLICAL REPOSITORY.—Published by Warren F, Draper, Andover, Mass.
This is a theological and classical quarterly, the organ of what is called "New England Theology." It is edited by Professors Park and Taylor, and has a world-wide regulation for learning. The number for the presst quarter contains in able article on the philosophy of Sir William Hamilton and his recent theological teachings.

Important Hints to Our Readers.

BACK NUMBERS AND VOLUMES OF THE SCIENTIFIC AMERI-CAN -Volumes I II and III (bound or unbound) maybe had at this office and from all periodical dealers. Price, bound, \$1.50per volume by mail, \$2, which includes postage. Price in sheets, \$1. Every ranchanic, inventor or artisan in the United States should have a date set of this publication for reference. Subscribers should not fail to preserve their numbers for hinding,

PATENT CLAIMS. Persons desiring the claim of any invention which loss been patented within thirty years, can obtain a copy by addressing a note to this collect stating the name of the patentee and date of patent, when known, and inclosing \$1 as fee for conving. We can also furnish a sketch of any patented machine issued copying, we can am ministra skewcim any paramon magning states since 1853, to accompany the claim, on receipt of S2. Address MUNN & CO., Parent S-dictors, No. 37 Park Row, New York,

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Consultation may be had with the firm, between xine and office. Consultation may be had with the firm, between xine and source of clock, daily, at their Principal Office, No. 37 Park-row, New O'clock, daily, at their Principal Office, No. 37 Park-row, No. the Cornel of the States of the firm, and is in daily communication with the Principal Office in New York, and personal attention will be given at the Patent Office to all such cases as may require it. Inventors and others who may visit washington, having business at the Patent Office, are cordially invited to call at their office.

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The annexed letters, from the last three Commissioner of Patents, we commend to the perusal of all persons interested in obtaining Patents:

The annexed ieters, i.e., and we comment to the period of all persons interested in opening. The ents:—

Messrs, Munn & Co.:—I take pleasure in stating that, while I held the office of Commissioner of Patents, more than one-bourth of all the office of Commissioner of Patents, more than one-bourth of all the business of the office of the confidence thus indicated has been fully deserved, as I have always observed, in all your intercourse with the Office, a marked degree of promptness, skill and fidelity to the interests of your employers.

Voirs, very truly,

CHAS. MASON.

Immediately after the appointment of Mr. Holt to the office of Postmaster-General of the United States, he addressed to us the subjoined very gratifying testimonial:—
Messrs, Munn & Co.:—It affords me much pleasure to bear testimony to the able and efficient manner in which you have discharged your duties of Soliettors of Patents white I had the honor of helding the office of Commissioner. Your business was very large, and you sustained (and, I doubt not, justly deserved) the reputation of energy, marked ability and uncompromising felcity in performing your professional engagements.

Very respectfully,
Your obedient servant,
J. HOLT.

Messrs. Munn & Co.:—Gentleman: It gives me much pleasure to say that, during 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 clients, as well as eminently qualified to perform the duties of Patent Attorneys with skill and accuracy. Very respectfully,

Messrs. Munn & Co. cordally myite persons visiting the city, or residents, to call at their spacious offices, No. 37 Park-row, and examine the models which are on exhibition, or refer to the works of reference contained in their library, access to which can be had at all hours.

Inventors can communicate in German, French, Spanish, or nearly any other language, in soliciting information from this office. Circulars of information regarding the procuring of patents, printed in German, may be had on application.

Communication and remittances should be addressed to MUNN & CO.,

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