Scientific American.

TRUES FOR ROOPS, BRINGES, & .-Saml, J. Reeves, of P. iladelphia, Pa., and Montgomery C. Meigs, of Washington, D. C.: We claim the mode of trussing or stiffening a curved or arched beam or rafter for bridges, or object with the arched or curved heam or rafter at heir outer ends with the arched or curved heam or rafter at vari-ous points, and couverging towards and connected together at their inner ends at a point within the space contained between the arc or arched or curved beam or rafter and the straight in Joining is extremities, sub-stantially as described and as represented in the draw-ing and model.

APPARATUS FOR DRYING GLUE-M. Newbauer and P. Adelman, of New York City: We claim the arrange-ment of a chamber of circular or pelygonal form, which is provided with a fan blower, or its equivalent, to which air of the proper temperature is conducted by means of a pipe, h, and tube, E, for the purpose of dry-ing the cakes of glue, substantially as described.

STEAM BOILERS-Win. Oldman, of Buffalo, N. Y.: I claim the central water space, F, in the combustion chamber, F, arranged in relation to the annular water space, F', and to the tubes, D, or their respective equivalents, substantially as set forth, for the purpose of in ancieng an active circulation of the water radially among the tubes, with the advantages explained.

APPARATOS FOR EXHIBITING STEREOSOOPIC PAPILITIES— Stuart Perry, of Newport, N. Y.: I claim, first, A moy-able frame-work for holding a series of stereoscopic pretures, from which the pictures are brought to be in-spected and then returned to it again by a mechanism operated by the user, substantially as described. Second. I also claim bringing each individual picture or pair of pictures, in succession, to the same point or place, before they are projected from their compari-ments to be exhibited, by mechanism substantially such as described.

piace, before they are projected rively torin their compart-ments to be exhibited, by mechanism substantially such as described. Third, I also claim, in combination with a movable picture holder, a reciprocating carrying frame, that catches each picture, or pair of pictures, in succession, and carries them to the place where they are to be in-spected, and returns them to their compartment again, substantially as described. Fourth, I also claim, in combination with a box or case, containing within it a series of pictures and a me-chanism for projecting them from said case, a frame-work on the outside of said box or case for receiving said pictures, substantially as described. Fifth, I also claim the slots in the picture, holder, harrier, f, and in the box or case, so that the picture, from its compartments in the picture holder, may be projected through both slots or openings to the outside of the box, substantially as described. Sixth, I also claim the friction back, tor its equiva-lent, for holding the picture holder and prevent it from moving until started by the crank, substantially as de-scribed. Seventh, I also claim making the frame, B, in sec-tions, or with, an opening, for the purpose of Introducing

Seventh, I also claim making the frame, B, in sec-tions, or with an opening, for the purpose of introducing the victures through said frame into the compartments of the picture through said frame into the compartments of the picture should be as well as removing them there-from, substantially as described. Eighth, I also claim the clamps, as applied to single or double pictures, for the purpose of strengthening them, preventing their warping or bending, and thus facilitating their passage through the slot, which they must pass through, to the place where the are exhibited, as described.

as described. MAGHINERY FOR DAYING PAPER-Edward L. Perkins, of RoxDury, Mass. I claim a new mode of drying paper, which consists in feeding the paper from a roll outside of the drying chamber, through proper opening, to a series of rollers, arranged as described, and then con-ducting it over said rollers, vertically, through the ao-paratus, and subjecting it, during its passage, to a gentle current of heated air, produced by forming inlets at the bottom for the reception of the atmospheric air, which passes up and is heated by a suitable heating appiratus, and excapes readily through apertures at the top, as set forth, and then out of the drying chamber through pro-per openings to a receiving roller, in the manner sub-stantially as described. Tart, Papers now Yourne, Line, Paof, at Diff.

TAIL PIESES FOR VIOLING—John Pfaff, of Philadel-phia, Ta: I claim the metal tail piece, A, with au eye, a, adapted to the detachable pin, b, recessed, 1 2 3 and 4, for the reception of the strings, and with the rib, h, the whole being constructed and applied to a violin, substantially as and for the purpose set forth.

CUTTING OUT STRAP HINGES-Saml. M. Richardson, of New York City: Iclaim the relieving die, d, in com-bination with the shaping die, f, and cutter, g, in the manner alld for the purposes specified.

DUST-PAN-J. Hall Rohrman, of Philadelphia, Pa Dustry and a contract of the part of the p

FURNACES AND STOVES—Charles B. Sawyer, of Fitch-burg, Mass. 1 claim, first. The arrangement of the closed topped fire-pote K. gas or combustion chamber, X. fire or draft flues, H. small gas openings, e. and air-heating flues, G, in relation to each other, substantially as shown and described. Second, The arrangement of the horizontal ventilat-ing flue, J, ventilating chamber, I and exit ventilating flue, O, and right angled draft flue, F, in relation to each other and in the top of the furnace, as shown and described.

SPRING BEOSTEAD BOTTOMS-Geo. Schott and John Loudon, of New York City: We claim the arrangement of the eyes, d e deatic cord or strap, 1, and hooks, 2, 2, on the ends of the slats, c c, substantially as and for the

purposes specified. We also claim the studs, 3 3 and 5 5, constructed and acting as specified, to sustain the slats, c c, on the strap or elastic cord, 4, as set forth.

divided hopper, &c., are so combined as to specined. I also claim the mode of producing the lateral and longitudinal movements of the carriage of the comb-carrier, viz: by means of the cam and its screw-thread produce a very effective and simple machine. BURGLARS' ALARM PISTOL—John G. Clark, (assignor to himself, D. G. Cotting and Sanuel W. Hatch.) of Augusta, Ga.: I claim, first, A pistol arranged on a vertical suspension guide of a hammer, so that the ex-plosion of its cap and the firing of its charges may be accomplished by concussions of the pistol and hammer, substantially as and for the purposes set forth. Second, Holding the pistol suspended by the means and in the particular manner described for the purpose set forth. It is said to work equally well on smooth or periphery, arranged and operating in conjunction with a rack applied to the said carriage, substantially as described. MODE OF SWITCHING OFF RAILEOAD CARS FROM ONE TRACK TO ANOTHER-M. Semple. of Philadelphia, Pa.: I clain the immovable switch or turnout, J P, in combin-ation with the guide bars, G: when arranged and oper-ating substantially as described. rough soil, and is very highly spoken of by MAMINE FOR CONVERTING OSCILLATING MOTION INTO DIRECT CIRCULAR MOTION—LOUIS Planer, (assigned to himself and Joseph Auger.) of New York (fiy: 1 claim the grooved dog, F, having its tail resting in a recess, b c, or equivalent resting place, in the lever, E, without being piroted or otherwise attached thereto, and hav-ing a spring, G, applied in combination with it and the said lever, and the whole being applied and combined with the wheel, A, and its axle, E, substantially as de-scribed. these who have had it in use. CALIFORNIA WINES-The San Francisco MACHINE FOR RAISING WATER--Peter Shank, of Jef-ferson Township, Ohio: I claim the combination of the horizontal float wheel, the crank motion (as produced by the three pins) when gives six motions of the pump Herald states that the present stock of Caliset forth. MACHINES FOR TEMPERING CLAY-J, D. Custer, of Norristown, Fa., assignor to himself and J. M. Roberts, of Perth Amboy, N. J.: I claim the arrangement and combination of the stationary toolhed rim. O. encom-passing the pit, A, the frame, H, with the gearing, K M I, attached to its outer ends: the pinlou, b, of the shaft, N, gearing into the rim. O, and the roi or shaft, F, connected with the frame, H, the hollow shaft, g, on the shaft, B, and the belt, e i, passing around the pulleys, K f h j, substantially as and for the purpose Sufforth. fornia vines now under cultivation will vield to one revolution of the wheel, and the horizontal double pump, substantially as described, for raising water. \$50,000,000 of wines and brandies in twenty years from the present day. The wine pro-(This is a novel arrangement of a dog, a lever, and OPERATING MACHINERY BY DOG POWER-Dexter C Sister, of Lawrens, N. Y.: I claim the arrangement and combination of the wheel, G. shaft, F. can, H. and lever, I, substantially as and for the purpose set forth. duct of the Golden State increases at the rate and a spring, in combination with each other and with the smooth rim of a wheel, whereby an oscillating . and of 50 per cent annually, and the quality of movement is imparted to the lever by suitable means these is equal to the best imported. In all causes the dog to operate with great certainty to turn Un this economical age even the dog is no longer ð the wheel in one direction only.] wine-growing countries, where the people use allowed to waste his master's time by lazily passing [This invention relates to an improvement in that HOORS FOR VEST CHAINS- Anthony Wallach, (as-signor to himself and Adolph Wallach.) of New York City: I claim the clasping hook, c, in combination with the bolt, i, in the body, b, of the vest chain hook, for the purposes and as specified. the day, but is expected to do his quota of work. This class of machines which are used for tempering clay, wine at their tables and where a bottle of it (?) and similar purposes, and which are composed of invention is an arrangement whereby a dog may be can be obtained for three or four cents, made to work light machinery such as churns, grindwheel placed on a radial shaft and made to rotate with-S)]) in a circular pit. The improvement is in driving or stones, and the like.] 10 ED OP ্ৰত্ৰ

CHEESE-OUTTRES-De Witt Stevens, of Newark, N. J.: I ciaim, first, The arrangement of the platform, B. with the projecting rings, g, to operate in combination with the corrusted cutting edge of the knife, substantially as and forthe purpose described.

the projecture inter of the knite, substantiation with the corrusted cuiting edge of the knite, substantiation with the platform. B, with the handle, C, and with the handle, C, and with the handle, C, and with the charder of the constant of the statistic set of

[With this cheese-cutter it is easy to cut a slice down

to the bottom and through the rind, and the cheese, by heing placed on a graduated platform, can be cut into slices of any desired weight.]

ROCKING CRADLE-W. D Tewksbury, of Cuylers-ville, N. Y.: I claim the two escapement wheels, h and k arranged in combination with the v-ree, E, and with the arm, F, and operating substantially in the manner and for the purposes described.

[Mothers will think much of this invention, for it saves them all the trouble of rocking the cradle which

contains "the precious baby," as all they have to do now is to wind up the spring and the cradle begins and continues to rock without any trouble.]

METIOD OF PERITING BARK Norrs-Alfred Tiche-nor, of Newark, N. J.: I claim, first, The making bark notes and other engraved plates, or sections of plates, with tonguis and groove or dowel joints. Secoud, The locking together tongue and grooved hank note or other engraved plates, by a chase, having its formed with tongue or groove, or with dowels made to match or correspond to the ends and kides of the tongue and grooved plate, which chase is made in pieces, fitted together and furnished with set screws, e, substantially as described.

BRE-HIVES-Ruggles S. Torrey. of Bangor, Me.: I claim providing the troughs in the tops of the comb bars, arranzed with the series of conducting tubes for conveying the feed to the troughs, and with apertures or slots for the free exit of the moisture to the con-denser, in the manner and for the purpose described.

denser, in the manner and for the purpose described. BRICK MAQUINES-WIM. S. Watson, of Madison, Ind.² Lelaim, first, The combination and arrangement with a stationary pressing block, K. of an intermittently re-ciprocating press-box, formed with one or more cham-bers, I.J. and provided with one or more plungers, L. L', having a joint motion with the press-box and an independent movement thereto, essentially as and for the purpose set forth. Secondly, The combination, with the intermittently reciprocating press-box, of the top and bottom holding slides, b. b., or either of them, arranged to move con-jointly with the press-box and independently of it, sub-trially as specified. Thirdly, Mounting the intermittently reciprocating press-box with a feed-box, having one or more cham-bers, M. M., essentially as and for the purpose set forth. MAQUENE FOR FUNSURA LEXIMPE_T E Weston of

MAGINE FOR FINISHING LEATHER—T. F. Weston, of Salem, Mass.: I claim, first, The coubination and ar-rangement of the devices herein described, or their mechanical equivalents for changing the angle of the tool while the machine is in motion, so as to cause it to operate upon the latter, first with a sharp edge, to take out its inequalities, and then with a dull or blunt edge, to smooth the leather. the successive operations pro-ducing the peculiar effect desired, for the purposes as set forth. t fortl

set forth. Second, The arrangement of devices herein described for giving positive motions to the tool, for lifting it from and holding it down upon the bed, the same con-sisting of the sliding barand friction box, operating as set forth.

OMNIBUS REGISTER-Robt. F. White, of New York City: I claim the spring platform, B, arranged in com-bination with the hammer, K, and with the 'utex, k, and operated in the Invest F, or 'us regulations, each stantially in the manner and for the purpose specified.

(By this invention each passenger, as he or she pays the driver, is registered, by means of an index on a dial, so that the number of fares received by the driver

can always be accurately known by his employers.] LOCK ATTACHMENT-John M. Wilson, of Philadel-phia, Pa.: I claim the arrangement, in combination with a lock, A s, and door. B d, of the box, C, key-holes, c b, wards, e, guard. E, plate, F, pivoted stops, G G h h i, and springs, H H, the whole being con-structed and arranged forunited operation, in the man-ner and for the purpose set forth.

[To a lock of ordinary construction this inventor ttaches a box, provided with wards, key-holes, and a revolving guard, so arranged as to prevent the lock

being pick ed, and also preventing access to the working parts of the lock, so that an impression in wax

not be taken, with a view of constructing keys to fit the lock.]

WASHING MACHINE-Samuel Wiswall, of Hyde Park, Vt.: I claim the arrangement and combination, within the oscillating cylinder, B. of a receiving chamber, d, having plates, e, and a door, f, when said door, f, is corrugated on one side and hinged to one of the plates, e, so that said door, f, may serve as a rubbing-board and also as a presser; all substantially as shown and described.

The object of this invention is to obtain a very simle clothes-washing device, by which manual lab

he made to assist the mechanical operation in a very facile way, and the parts of the clothes that cannot be perfectly cleaned by the machine alone, finished in an expeditious and perfect manner by the attendant with

out removing them from the machine.]

propelling the wheel, whereby any power-steam, water or animal-may be applied in a very simple and economical manner, and in a way less calculated to injure or rock the working parts than hitherto, thereby enabling machines to be constructed much less cumber. some than usual, and that will take much less power

to drive them.] STEERING APPARATUS-WIM. Goodsoe, (assignor to himself and Isaac Ayrea) of Manchester, Mass. : I claim the corrobination of the toothed segment, M, and the curved way, P, operating as set forth, for the pur-pose specified.

For specified. Srovgs-C. Harris and Paul W. Zoiner, (assigners to themselves and J. Langstaff.) of Cincinnati, O.: We claim the arrangement and combination of the damper, G. clamber, f. double-walled case, a, and pipe, B, sub-stantially as shown, so that the damper, G, which per-tains to the oven, shall, when drawn out, extend across the bottom of the pipe, E, and cause the products of combustion to circulate as describerd, and when closed shall permit a more direct draft, for the purposes set forth. forth

[This stove is one of those which may be used as heat-diffusers and cook-stoves, and yet have an orna mental appearance, equally so as if intended only for heaters. The invention consists in a novel oven attachment, which may be applied to the steve and removed therefrom as occasion may require.]

APTARATTS FOR HEATING WATER—GOO. L. Inzersoll, (ussignor to J. E. Ingersoll) of Cleveland, Ohio : I I claim the double eyilmder heater, C. C, the seme being united by the plates, G F II L so as to form the space, J, for the assersion of the heat, and by the pipes, DE, for the passage of the water, the heating space heing evered by the can, K, and bhe parts here named being arranged as set forth.

arranged as act forth. I also claim, in combination with the two cylinders, C C, the instruction O, extending to near the bottom of the cylinder, C, the exit-pine, O, and the pipe, N, in connection with the pipes, D E, for the purpose of etublishing a circulation and rapid heating of the vector water.

Shoe-KNIVES—Ira Merritt, of Abington, Mass, as-signor to himself and I_{*} S. Merritt, of Weymouth, Mass.: I claim the described knife-holder, in combina-tion with an extensible blade, so arranged that as the blade is worn it may be protruded, as set forth, for the purpose described.

SPIRIT GAS BURNERG-Charles Miller, (assignor to Henry Danford.) o. St. Louis, Mo.: I claim the arrange-ment of the value over the tube and wick. for the pur-pose of extinguishing the flarme, or regulating its size and altering its direction, in the manner set forth.

Diarmassa ros Physocaspino Cameras – Felix Millerand Alois Wirschinz, (assignors to Felix Miller and H. H. Hayden) of New York City: We claim the arrangement and combination of the plates, a a', the notched plate, C, and springs, m, as and for the purper shown and described.

[A number of curved plates are placed in a tube in front of the lens, so as to form apertures of different sizes for increasing or diminishing the intensity or sharpness of the light into the camera from the object. in taking photographic pictures.]

in taking photographic pictures.] POWER PRINTING PRESESS-Jedediah Morse, of Can-ton, Mass., assignor to the S. P. Rugzles Power Press Manufacturing Company, of Boston, Mass. : I claim the improvement in the construction of each of the platen rails, as 93, the same consisting in the chute, k, and a notch or depression. I, arranced therein and with referemore to the rollers or tapes substantially in man-ner and for the purpose as specified. Takso claim the arrangement and the pith, ard shad. Commuting Review, and their being actuated by a foir trendfler, n, a spring, q, and the cam, r, of the toracle, substantially as described. I also claim the mode of insuring the return move-ment of the toggles, and their gradual forward motion. after each impression has taken place, the same being accomplished by the notched wheel, u, or its notch, x, as described.

as described. I also claim the mode of constructing the gears, a' and b', for operating the frisket-carrier, viz : with the toothed arcs, c' c' d' d', and the concave and convex arcs, e' e' and f', unprovided with teeth-the whole being arranged eo as to operate together, substantially as a specified.

area, e e main in the subject of the Unit desin-the while being arranged so as to operate together, substantially as specified. I do not claim the subject of the United States pat-cat No. 7,205, but I claim the combination of the two, or any other suitable number of wheels. F 27, lever inpering and closing bars, z 29, or mechanical equiva-lents for such bars, the same being substantially as and for the purpose described. I also claim the specified mode of constructing each of the inpers, v v, for receiving the sheet of paper from the table, G, viz: so that each jaw may move away from the other while the upper is being raised ; the same producing the advantages not only of insur-ing the passage of the lower jaw. Inderneab the sheet of paper simultaneously with that of the other jaw over it, but of both jaws closing upon the paper at one and the same time, so as not to lift it out of place. I also claim the mode of constructing ach of the pipers, v, viz: with a lip or hend, in arranged thereon and for the purpose described. I also claim the mode of applying and onerating each of the points, 12, viz: hinging oionting it to the table, G, and combining with it a stop, m2, and lever, k2, or the equivalents therefor, the whole operating or being made to operate substantially as described. I also claim the inder of method of onerating re-serving the paper as substantial to de-seond and pass in an inclined position under the deliv-ring tapes and rollers, while the nipper's, v, may be

ruszet-carrier, the same consisting in causing it to de-scend and pass in an inclined position under the deliv-ering tapes and rollers, while the nippers, v, may be approaching the sheet table. G, the same enabling the press to be made lower and shorter than when the fris-ket-carriage is moved horizontally under the said de-livering tapes or rollers.

MOLDS FOR PERSSING GLASS—Thos. Shaw, (assignor to himself and John C. Bailey.) of Philadelpbia, Pa.: I claim forming on the plunger, B. a shoulder, f, of a size corresponding to that of the upper cise of the re-cess in the base, A. of the mold, and limiting the downward movement of the plunger, so that the said shoulder shall coincide, or be slightly below the said upper edge of the recess, substantially in the manner and for the purpose set forth.

and for the purpose set forth. PLUG BEDETRAD FASTENING-JROOD J. Smith, (Assign-or to himself and J. H. Pugh.) of Philadelphin, Ph.: I claim, first, A double plux fastening for bedsteads, consisting of the two distinct parts, A and A, so con-structed us to be adapted for being driven or secured into the post and rail respectively, and also fitted with a wedge-shaped dovetail tenon, d, and a corresponding groove, e. operating to sether so as to cause the end of the rail to be drawn tightly against the post, in the downward pressure of the said rail, after they are con-nected together--all substantially in the manner and forthe purpose set forth and described. Second, I also claim making the post-plug, A', with the inclined dovetail groove, e, across in one side of the same so as to operate in combination with the wedge-shead tenen, c, on the rail-plug, A, substan-tially in the manner and for the purpose set forth and described. DESIGNS.

DESIGNS. SEWING MACHINES-Solomon B. Ellithorp, of New York City.

COOK STOVE - Authony J. Gallagher and Jacob Beesley, (assignors to Anthony J. Gallagher,) of Phila-delphia, Pa.

INVENTIONS EXAMINED at the Patent Office, and advice given as to the patentability of inventions, before the expense of an application is incurred. This service is carefully performed by Editors of this Journal, through their Branch Office at Washington, for the small fee of \$5. A sketch and description of the invention only arc wanted to enable them to make the examination. Address MUNN & COMPANY,

No. 37 Park-row, New York.

Plants in Rooms.

In the crowded city, amid its dust, smoke, turmoil and troubles, it is pleasant to find a memento of the country in the opening rose and the modest daisy. When we see a pot of flowers adorning the window of a room, however humble in appearance the domicile may be, the feeling arises spontaneously in the mind that they are fostered by the gentle hand of some one whose tastes are true and tender. A few words on the culture of plants in rooms may be beneficial to many persons at this particular season of the year. They should be placed in a situation where they can receive an abundance of light and air: otherwise they will become sickly. Exposure to the dews at night (where this can safely be done in cicies), then taking theme in next ning, protiv promotes tools health.

Plants are frequently injured by injudicious watering. Some persons seem to suppose that deluges of water afford a sure remedy for all the evils to which plants are subject. This is a mistake. True, they require a considerable amount of moisture, but not one half the quantity which is oftentimes applied. Evening is the best time to water them, and in every case, cold water from a cistern or a pump should be avoided. The water should be warmed by exposure to the sun, or in some other manner, up to the temperature of the atmosphere before it is used. Many plants are greatly retarded in their growth by cold water being poured upon them. The quantity to be applied varies with the size and nature of the flower; the ground should be thoroughly moistened, but not soaked. If the leaves should become infested with insects, some tobacco juice, mixed with water and sprinkled over them, will soon destroy these. The great feature in cultivating plants, to promote their health, is that which is equally efficacious with human beings-cleanliness.

Improved Seed-Planter.

GRINDING MILLS-Joseph Sedge beer, of Cincinnati, Ohio I Claim, first, Constructing the rotating plate, A, with the same dress or finish upon its grinding face as that of the stationary plate, B, substantially as de-scribed, for the purposes set forth. Second, I claim the diamond-shaped teeth, a b c e, constructed and arranged substantially as and for the purposes set forth. CULTVA'ORS.John Young, of Joliet. III. : I claim, first. The combination of the screw-extension, A, on the bottom of the standard. B, with the oblique slotted castings, C, attached to the front side of the cross-bar, D, of the beam, E, substantially as and for the pur-poses set forth, Second, The combination of the stationary vertically perforated bar, G, with the adjustable rake or harrow, If, arranged on a cultivator, substantially as and for the purposes set forth. MAGEINERY FOR CUTTING COME TEETH-WIM, Noyes, Jr., of West Newbury, Mass., assignor to S. C. Noyes & Co., of West Roxbury, Mass.; I claim, in combination with the saw, or the same and its peripheral guide, or guides, a mechanism or means of pressing or bending the saw laterally, substantially as and for the purpose specified Joseph McKown, of Geardstown, Va., has patented (May 24, 1859) a seed-planter, in which a horizontally-moving hand lever, MEANS OF SECURING THE: BITS OF BENON PLANES-Chas. W. Seely and Bonj. F. Locke, of Wellington. Ohio: We claim stopping the upper end of the inter-posed bit below the screw, and upsetting it so as to catchinto the cross serrations in the bed-piece, as set forth

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