

No. 27,354. Manufacture of Charcoal and Distillation of Wood Products.*(Fabrication du Charbon bois et Distillation des Produits Pyrolytiques.)*

Elbert J. Burrell, Aetna, Tenn., U.S., 6th August, 1887; 5 years.

Claim.—1st. The combination of the following element: a closed charcoal kiln, condensers and a fan connected therewith, a main extending from the last condenser of the series to the furnace of the kiln, and having a valved inlet for regulating admission of atmospheric air, and a second fan located between the air-inlet and the furnace for the purpose of exhausting, or drawing the uncondensed gases from the last condenser, and forcing or propelling them admixed with air forward to the furnace, substantially as shown and described. 2nd. The combination, with a closed charcoal kiln, of two separate groups or series of condensers, a fan or blower located between the same for exhaust and pressure, a chimney connected with the condensers and provided with a valve for closing it, a main connected with the said chimney and leading to the kiln-furnace, an adjustable air-inlet valve or damper in said main for the mixture of air and gas, and a fan or pressure-blower connected with said main, all substantially as shown and described, to operate as specified.

No. 27,355. Bracket Wash Stand.*(Lavabo à Console.)*

Gagger D. Tolman and Lorenzo D. Roberts, Shawano, Wis., U.S., 6th August, 1887; 5 years.

Claim.—1st. A bracket wash stand, constructed of a back adapted for attachment to a wall or kindred support, and a soap dish shelf, towel rack and wash bowl supporting hoop, all projecting from the face of the said back, substantially as described. 2nd. In a wash stand, the combination of a back A, a soap dish shelf secured to the back, and an inclined brace wire C having its ends received in sockets in the under side of the shelf, and in the face of the back A respectively, substantially as described. 3rd. In a wash stand, the combination of a back A, screw eyes D held on the back A, one above the other, and a V shaped towel rod E formed with a downwardly bent arm passed loosely through the screw eyes D, substantially as described. 4th. In a wash stand, the combination of a back A and a wash-bowl supporting hoop F, having an arm G passed through the back A, a nut screwed on the inner end of the arm G, and a downwardly inclined brace I secured to the hoop and resting in a socket in the face of the back A, substantially as described. 5th. The combination of a wire bent to the form of a ring with parallel projecting ends J, another wire bent to V form, and a binding sleeve K tightly surrounding the ends J and one arm of the V wire, substantially as and for the purpose specified.

No. 27,356. Printing Press.*(Presse d'Imprimerie.)*

Friederick Moritz, Dortmund, Germany, 6th August, 1887; 5 years.

Claim.—1st. The combination of the rollers *l* and *k*, the cylinder *r* and the platen *s* with the T shape gripper *g*, the directing rod *e*, the rod *h* having its pressing foot and the springs *f* and *i*, substantially as and for the purpose set forth. 2nd. In a printing press, the combination of the envelope receptacle *v* having the adjustable back *p* *pt*, and the rod *h* with its helical spring and presser-foot with the gripper *g*, the spring *gr*, the springs *f* and *i*, the directing rod *e*, the rollers *l* and *k* the arms *m* and *mr*, the spring *n*, the cylinder *r* and the platen *s* with means of supporting and actuating the same, substantially as and for the purpose set forth.

No. 27,357. Machine for Forming Netted Wire Fabrics.*(Machine à faire les toiles Métalliques en filet.)*

Theodore M. Conner, Richmond, Ind., U.S., 6th August, 1887; 5 years.

Claim.—1st. In mechanism for forming netted wire fabric, the combination, with a train of oppositely-rotating spool carrying disks, carried in pairs upon shafts arranged in line, each disk having notches or seats 8, of spool or bobbin frames having journals resting in said notches, friction rolls mounted upon the prolonged ends of said journals, guide-plates having intersecting openings with the edges of which said friction rolls engage, and automatic switches by which the frames are at intervals withdrawn from the notches of one pair of disks, and carried into those of the adjacent oppositely-rotating disks, substantially as described. 2nd. The combination, with a train of inter-meshing gears arranged in line, each gear having a hollow shaft, of notched spool-carrier disks mounted on said hollow shafts, bobbin-frames mounted in said notched disks, and automatic switches by which the bobbin-frames are simultaneously withdrawn from the notches of those disks, having similar rotation and lodged in the notches of the adjacent oppositely-revolving disks, substantially as described. 3rd. The combination, with a train of inter-meshing gears of equal diameter mounted on prolonged hollow shafts arranged in line, of a corresponding series of spool-carriers mounted on said hollow shafts, and having notched disks, bobbin-frames having journals lying in the notches of said disks, and switches by which the bobbin-frames are each withdrawn from the notches in one pair of disks, and lodged in the notches of the adjacent oppositely-revolving pair of disks, substantially as described. 4th. The combination, with a series of carriers driven by a train of inter-meshing gears and a series of bobbin-frames actuated by the same, of switches operated automatically by means of a double ring-cam, a lever having a dog running in said cam, and a shifter pivoted at the mouth of the ring to throw the dog from the inner to the outer surface, substantially as described. 5th. The combination, with a train of notched spool-carrier disks arranged in pairs driven by intermeshing gears, of bobbin-frames having journals resting in the notches of said disks plates having curved edges lying near the path of each of said

journals as the carriers revolve and switches which withdraw the bobbin-frames from the notches of one pair of disks, and lodge them in the notches of the adjacent oppositely-revolving disks, said notches being thrown by connecting rods operated by levers 21 and 22, the latter having connecting with a lever running in the cam-race of a wheel 27, substantially as described. 6th. The combination, with a series of hollow shafts arranged at regular intervals and in parallelism, of notched spool-carrier disks arranged in pairs upon each shaft, bobbin frames having journals which lie in the notches of said disks and are pierced to permit the passage of the wires from the bobbins, a series of switches to withdraw the journals of said frames from the notches of the alternate disks and lodge them in the notches of the adjacent and oppositely revolving disks, and a series of inter-meshing gears driving said hollow shafts, substantially as described. 7th. The combination, with a series of revolving spool-carrier disks driven by intermeshing gears, of a series of spool or bobbin frames having journals or supports lying in seats in said disks, friction rolls mounted on the projecting ends of the spool-frames, guide plates having intersecting opening concentric with the path of revolution of the spool-carriers, and switches acting upon the friction rolls of said carriers to transfer the latter from one pair of disks to the adjacent and oppositely revolving pair, substantially as described. 8th. The combination, with the spool-frames 10 having bearings 11, and provided with an eye or opening 13 in one of its bearings, of the friction-rolls 12, the disks 7 having seats 8, the hollow shaft 3, plates 17 having openings 18 and a driving gear, substantially as described.

No. 27,358. Hand Drilling Machine.*(Forerie à Main.)*

Benjamin F. Smith, Somerville, Mass., U.S., 6th August, 1887; 5 years.

Claim.—The improved hand drilling machine, consisting of the drill spindle *a* having recess in its lower end to receive the drill and the collars *ar, b*, as described, and having the sleeve *c* surrounding the upper end of the drill spindle *a*, and provided with the screw *e* working in a screw thread in the said drill spindle, in combination with the hub *c* of the handle *ci*, said hub surrounding the drill spindle between its collars, and having one or more tapering recesses *cr* for the rollers *d* and springs *dr*, as and for the purpose set forth.

No. 27,359. Advertising Attachment for Clocks.*(Appareil d'Annonce pour Horloges.)*

Andrew V. Strait, Sidney, N.Y., U.S., 6th August, 1887; 5 years.

Claim.—1st. The combination, with a clock, of an advertising device consisting of one or more upright, and horizontally-revolving cylinders provided with radial spokes at their upper ends, and holding and releasing rods connected with the clock-works by intermediate mechanism, and engaging with the spokes, substantially as and for the purpose set forth. 2nd. The combination, with a clock of one or more revolving cylinders to which the advertisements are attached, radial spokes or arms extending from one of the cylinders, and a holding and releasing mechanism operated by the clock-works and consisting of a cam-wheel, a pivoted lever hooked at one end and slotted at the other, and rods connected thereto and extending down between the spokes or radial arms, substantially as and for the purpose set forth. 3rd. The combination, with a clock, of an advertising device consisting of a series of cylinders, connected with each other by suitable gearing, each cylinder having curved slots, and retaining strips for the insertion and holding of the cords containing the advertisement mechanism for imparting to the cylinders a rotary motion, mechanism connected to the clock work to impart to the cylinders a movement at intervals, and bell operated by said cylinders, substantially as and for the purpose set forth.

No. 27,360. Fabric Boot.*(Botte en Tricot.)*

Martin V. Beiger and Adolphus Eberhart, Mishawaka, Ind., U.S., 6th August, 1887; 5 years.

Claim.—1st. The herein described method of making knitted seamless boots, which consists essentially, first, in spinning the yarn very coarse as set forth, second, in knitting the same loosely in a boot of mammoth proportions, third, in shrinking and consolidating the same down to size by fulling, fourth, in finishing the same on tree and last, substantially as set forth. 2nd. A boot constructed according to the herein described according to the herein described method, to wit: the foot and leg wholly formed by knitting from exceedingly coarse yarn loosely twisted in mammoth proportions, said leg and boot being then shrunk and consolidated by fulling and finally finished on tree and last, as set forth. 3rd. A seamless stiff-leg boot made wholly of wool, consolidated and stiffened by fulling, as set forth, and provided with an external heel lift attached directly to said boot, as set forth. 4th. A seamless stiff-leg boot made wholly of wool, consolidated and stiffened by fulling, as set forth, and provided with an internal heel or plate, and an external heel lift the fastenings whereof extend through into said internal heel or plate.

No. 27,361. Heel Nailing Machine.*(Machine à clouer les talons.)*

Freeborn F. Raymond, 2d, Newton, Mass., U.S., 8th August, 1887; 5 years.

Claim.—1st. In a nailing machine, the combination of a last or work support, two templets *ci, c2*, supported by a table or other support, a cam and connecting mechanism for moving the templets automatically and successively into operative position, and two gangs of nail-driving devices adapted to be brought successively into operative position and operated. 2nd. In a nailing machine, the combination of a last or work support, two templets *ci, c2* carried by a table or other support, a cam and connecting devices for moving them automatically and successively into operative position, the nail-carriers or transferers *d, d1*, a cam and connecting devices for