

No. 21,056. Stop and Waste Cock.*(Robinet de Retenue et de Décharge.)*

John H. Kennedy and Joseph P. Farnan, Cleveland, Ohio, U.S., 7th February, 1885; 5 years.

Claim.—The combination, with the valve-body, constructed as described, and provided with the laterally-projecting stops, and a plug-valve of the cap adapted to be removably secured to the projecting end of the plug-valve and provided with an angular upper end for the attachment of a removable key or other suitable device, and with an arm C, all of the above parts combined and adapted to operate as described.

No. 21,057. Extension File.*(Liasse à Rallonge.)*

John Gross, Ottawa, Ill., U.S., 7th February, 1885; 5 years.

Claim.—1st. A file-holder composed of two covers, one of which forms a pocket into which a connecting-extension secured to the other cover may be pushed, or from which it may be partially withdrawn at will, substantially as and for the purpose set forth. 2nd. A file-holder made in two parts, one of which forms a pocket containing a slotted intermediate piece, and the other has secured to it an extension formed with a T-head, or tongue upon its end, substantially as and for the purpose set forth. 3rd. In a file-holder, the cover *a*, provided with the extension *b*, having the tongue *c*, in combination with the cover *a* forming a pocket, in which is secured the intermediate part *d*, formed with slot *d*, substantially as and for the purpose set forth.

No. 21,058. Burnishing Apparatus for Boots and Shoes. *(Astic de Cordonnerie.)*

Henry T. Spencer, Montreal, Que., 7th February, 1885; 5 years.

Claim.—In a burnishing apparatus for the shafts, etc., of boots and shoes, the combination, with the drive shaft, of head carrying stud set eccentrically therein, sleeve mounted on, and rotated by said stud and carrying burnishing tool, and arm or spindle connected with inner end of sleeve, and rock shaft or stud carried in frame, all substantially as and for the purposes set forth.

No. 21,059. Thrashing Machine.*(Machine à Battre.)*

Ezra Bessey, Limehouse, Ont., 7th February, 1885; 5 years.

Claim.—As an attachment to a thrashing machine, the trap door E, hinged as shown, to the so-called bottom of the carrier-frame, and secured, when shut, by a bolt, or other equivalent device, in combination with the carrier-frame A, and rakes B, substantially as shown and for the purpose specified.

No. 21,060. Mould for Drum Traps.*(Moule pour Trappes Cylindriques.)*

John T. Copithorn, Boston, Mass., U.S., 10th February, 1885; 5 years.

Claim.—1st. The outer mould and the separable core consisting of independent side pieces, and means to fasten them together, they having, when thus fastened, an opening at their ends, combined with the removable bottom piece, made in separable parts for closing the said opening, substantially as described. 2nd. A separable core composed of side pieces *f, f*, and *g, g*, the latter capable of being drawn together or contracted, and thereby disengaged from the former, combined with fastening links *h*, for holding the said part together in expanded position, and the independent threaded bottom or end piece, adapted to screw in a threaded opening at the end of the side pieces, when fastened together, substantially as described. 3rd. A separable core composed of side pieces *f, f*, and *g, g*, the latter provided with sockets *o*, combined with the bolts *m*, and nut *ml*, whereby the side pieces *g, g*, are withdrawn from the others, thus separating the core and permitting its parts to be removed from the casing, substantially as described. 4th. The outer mould and the separable core provided with a shoulder to receive the ring *o*, combined with the core-suspending device mounted in the outer mould, substantially as described. 5th. The core and the separable outer mould, combined with the core-supporting device *r r*, hinged upon the outer mould, and adapted to engage and hold the core, the core-supporting device being provided with a pouring-cup and passage, substantially as described.

No. 21,061. Delivery Apparatus for Printing Machines. *(Appareil de Distribution pour Machines à Imprimer.)*

Calvert B. Cottrell, Stonington, Ct., U.S., 10th February, 1885; 5 years.

Claim.—1st. In a printing press, the combination, with an impression-cylinder capable of rotation in one direction only for printing, and a feed-board at the back of the cylinder, of chain-wheels arranged above and at the front of the cylinder, a receiving-table at the farther end of the press, chain-wheels adjacent to said receiving-table, endless chain passing around said chain-wheels, and a gripper-bar and gripper-rod extending between and connecting said chains, and provided between the chains with gripper-fingers, said chains being capable of movement in one direction only, to take the printed sheet from the cylinder and carry it over the inking apparatus and to the receiving table, substantially as herein described. 2nd. The combination, with the cylinder of a printing press, of endless chains extending from the front of the cylinder to a receiving-table at the farther end of the press, a gripper-rod carrying delivery-grippers and extending between and supported and carried by the chains, and mechanism, substantially as described, for driving the chains at a greater velocity than the surface velocity

of the cylinder, substantially as herein specified. 3rd. The combination with the cylinder of a two-revolution press capable of a rising and falling movement, and a feed-board at the back of the cylinder, of chain-wheels arranged at the front of the cylinder and supported from the rising and falling bearings of the cylinder, a receiving-table at the farther end of the press, chain-wheels adjacent to the receiving table, endless chains passing around said chain-wheels, and a gripper-bar and gripper-rod extending between and connecting said chains, and provided between the chains with gripper fingers, said chains being capable of movement in one direction only, to take the printed sheet from the cylinder and carry it over the inking apparatus and to said receiving table, substantially as herein described. 4th. The combination, with the cylinder of a printing press, of endless chains extending from the front of the cylinder, a gripper-rod carrying delivery grippers and extending between said chains, and mechanism, substantially as described, for imparting a rising and falling movement to the said chains, substantially as herein specified.

No. 21,062. Pruning Shears.*(Ciseaux de Jardinier.)*

John G. Rubach, Princeton, Ill., U.S., 10th February, 1885; 5 years.

Claim.—1st. A rubber spring, consisting of an annular ring or band, in combination with sleeves, whereby it may be secured adjustably between the handles or arms of a pruning shears or like implement, substantially as and for the purposes herein shown and specified. 2nd. A rubber spring for pruning shears and like implements, consisting of an annular ring or band having a transverse or diametrical brace, substantially as and for the purposes herein shown and specified. 3rd. In a rubber spring for pruning shears and like implements, the combination, with an annular rubber ring or band, of a transverse brace diametrically connecting the sides of the same, substantially as and for the purposes herein shown and specified. 4th. The combination, with a pruning shear or like implement, of a spring consisting of an annular rubber ring or band, having a transverse or diametrical brace, said spring being arranged between the handles of such shears or implement, substantially in the manner and for the purpose herein set forth. 5th. The combination, with a pruning shear or like implement, of a spring arranged between the handles of the same and connected therewith by means of sleeves having set-screws whereby they may be adjusted, said spring consisting of an annular rubber ring or band having a transverse or diametrical brace, substantially as and for the purposes herein shown and specified.

No. 21,063. Thermostat. *(Thermostat.)*

Alexander K. Rider, Walden, N. Y., U.S., 10th February, 1885; 5 years.

Claim.—1st. A thermostat, consisting essentially of a flattened metallic tube, filled, or partly filled, with an expanding fluid, the said tube being bent or collected into a suitable shape, and secured at one end to a base, and provided at its opposite end with a contact pin, which is adapted to be moved into contact with a pin secured to the base. 2nd. In a thermostat, the combination, with a tube partly or wholly filled with an expansible or volatile liquid, one end of the said tube being rigidly secured to a base made of conducting material, the opposite end thereof being free and provided with a contact pin, of two separate contact-pins secured to the base, but insulated therefrom and from each other, the said pins being brought into electrical connection with the said tube, by the expansion thereof, substantially as set forth. 3rd. The combination, with the base and the curved flattened tube secured at one end thereto, and provided at its free end with a contact-pin, the said tube being filled, or partly filled, with an expansible or volatile liquid, of the plug F, spring-contact pins, and the wires W₁, W₂, W₃ and W₄, all of the above parts combined and adapted to operate as described.

No. 21,064. Preserving Jar. *(Pot à Conserves.)*

William G. Beach, New Glasgow, N.S., 10th February, 1885; 5 years.

Claim.—1st. As an improved article of manufacture, a glass jar having an inwardly fitting glass cover, provided with a rubber ring, to interpose the edge of the cover and interior of the jar, as set forth, for the purpose described. 2nd. The combination of the jar A having an annular internal shoulder B, over C having an annular recess D, and packing ring F inserted in the recess, whereby the ring yields to prevent the jar being split by contraction to hold the cover fixedly in place and to exclude the air, as set forth.

No. 21,065. Electro-Magnetic Valve and Connection for Controlling Air Brakes on Railway Cars. *(Valve Electro-Magnétique et Raccordement pour Contrôler les Freins Atmosphériques des Chars de Chemin de Fer.)*

Henry Fladd, St. Louis, Mo., U.S., 10th February, 1885; 5 years.

Claim.—1st. The combination, with the cylinder provided with suitable ports, of the tubular diametrically-arranged valve, the armature carried by said valve, and the electro-magnet arranged to attract said armature, substantially as described. 2nd. The combination, with the main or communicating pipe and the cylinder having diametrically opposite ports or passages, arranged for communication with the said pipe and the external air respectively, of the tubular valve arranged to open and close said ports, and having its interior in communication with the interior of the cylinder, the armature carried by said valve, and the electro-magnet arranged to attract said armature, and having its helices arranged for connection in an electric circuit outside of the cylinder, substantially as described. 3rd. The combination, with the cylinder provided with ports arranged for communication with a main pipe and the external air respectively, and an electro-magnetic valve for controlling said