

No. 35,159. Band Securing Mechanism for Grain Binders. (*Appareil noueur pour lieuses à grain.*)

John S. Davis, Cleveland, Ohio, U. S. A., 7th October, 1890; 5 years.

Claim.—1st. The combination of the knottor, the reciprocating cord holder, and the laterally-moving guide-bracket in which it is mounted, a spring to press the bracket away from the knottor, an adjustable stop to limit its outward movement, and a fixed stop to limit its movement toward the knottor, substantially as and for the purpose hereinbefore set forth. 2nd. The combination of the guiding horn I', the bar D, reciprocating across the recess under the horn, and the spring actuated bar E, which follows the bar D, partly across the recess holding the cord end until it is freshly gripped between the bar D, and the horn. 3rd. The combination of the guiding horn I', the bar D, reciprocating across the recess under the horn, and inclined at its front end to ride under the cord, the hooks or clamping-abutment d^1 , d^2 , on the upper surface of the bar, and the spring actuated bar E, against the end of which the abutment bears to clamp the cord, substantially as set forth. 4th. The combination of the guideway and its fixed horn I, with the reciprocating bar D, inclined and rounded at its front end, and formed with projecting hooks or abutments on its upper side, and a recess or throat on its lower side, substantially as hereinbefore set forth. 5th. The combination of the bar D, inclined and formed with a clamping hooked projection on its front end, the clear grooved, dividing said hook into two separate parts, the spring actuated bar E, formed with a tongue E' on its front end, that slips into the groove, and having the shoulders at each side of the tongue shaped to fit into clamping-hooks on the bar D, substantially as hereinbefore set forth. 6th. The combination of the knottor, a laterally-moving guide-way, a cord-holder consisting of bars D, and E, mounted therein, the horn I, and shear ϵ , mounted on the guide-way, which is adapted to be drawn toward the knottor by the cord held in the grasp of the holder, with a spring H, which urges the holder away from the knottor, and means by which its force may be adjusted, substantially as and for the purpose hereinbefore set forth.

No. 35,160. Heating Device. (*Appareil de chauffage.*)

Matthew Evans, Toronto, Ontario, Canada, 8th October, 1890; 5 years.

Claim.—1st. The combination with a pipe or flue, supplied with air and extending into an apartment of one or more gas-jets located in the said pipe or flue to secure the direct heat of the gas-jet for the purpose of heating the air, substantially as and for the purpose specified. 2nd. A pipe or flue supplied with air and extending into an apartment, in combination with a gas supply pipe having a series of small perforated pipes projecting from it and extending across the air-pipe or flue, substantially as and for the purpose specified. 3rd. A pipe or flue supplied with air and extending into an apartment, a gas supply pipe having a series of small perforated pipes projecting from it and extending across the air-pipe or flue, in combination with a cut-off cock arranged to regulate the supply of gas for the perforated pipes, substantially as and for the purpose specified. 4th. A chamber formed in or connected to an air-pipe or flue supplied with air and extending into an apartment, a water-pan located in the said chamber, a series of perforated pipes extending across the mouth of the air-pipe or flue entering the said chamber, in combination with a gas supply pipe, connected to the perforated pipe and provided with a cut-off cock, substantially as and for the purpose specified. 5th. A chamber formed in or connected to an air-pipe or flue supplied with air extending into an apartment, a water-pan located in said chamber, a series of perforated pipes extending across the mouth of the air-pipe or flue entering the said chamber, in combination with a gas-supply pipe connected to the perforated pipes and provided with a cut-off cock, a damper located in the air-pipe or flue between the said damper and the apartment to which the air-pipe or flue extends, substantially as and for the purpose specified.

No. 35,161. Brush. (*Brosse.*)

Jerome Rich and Stephen A. Welling, both of Jackson, Michigan, U.S.A., 8th October, 1890; 5 years.

Claim.—A brush-body, having bristles projecting through two of its surfaces, and a series of water passages between the clusters of fibers, combined with an elastic back-band attached to the ends of the brush-body, said elastic band adapted to be stretched so as to receive between the brush-body, and said band, a bar of soap, and to contract thereon, as and for the purposes specified.

No. 35,162. Chemical Fire Extinguishing Apparatus. (*Appareil chimique pour extincteurs d'incendie.*)

The Worcester Fire Appliance Company, (assignees of Clarence Richmond Macomber), all of Worcester, Massachusetts, U.S.A., 8th October, 1890; 5 years.

Claim.—1st. As a new article of manufacture, a chemical fire-extinguishing apparatus or pail to contain chemical fire-extinguishing material, and provided with an easily perforated cover, and means for securing said cover in place to hermetically seal the contents of the pail, substantially as set forth. 2nd. In a chemical fire-extinguishing apparatus, the combination, with a glass or transparent receptacle, and a chemical fire-extinguishing liquid hermetically sealed within said receptacle by a tin-foil or easily perforated cover, of a metallic protecting case for inclosing said receptacle, and means for securing the receptacle within said case, substantially as set forth. 3rd. In a fire-extinguishing apparatus, the combination, with a receptacle for holding fire-extinguishing liquid, provided with a screw-thread upon its upper exterior surface, an inwardly projecting flange or shoulder, and an upward projection, and a tin-foil or easily

perforated cover adapted to extend over the top of said receptacle, and a screw-ring to screw onto the top of the same, to secure the easily-perforated cover on the receptacle, and hermetically seal the contents thereof, of a metal case for inclosing said receptacle, and detachable therefrom, and provided with ears, and a wire handle with bent ends to move out and in said ears for the purpose stated, substantially as set forth. 4th. In a fire-extinguishing apparatus, the combination, with a receptacle for holding a fire-extinguishing liquid, having a screw-thread upon its upper exterior surface, and an inwardly projecting flange or shoulder, and a tin-foil or easily perforated cover, and a screw-ring for securing said cover to the receptacle to hermetically seal the contents thereof, of a metal case for inclosing said receptacle and detachable therefrom, and provided with a handle, and means for holding the receptacle in said case, and a slip-cover, adapted to extend over the easily-perforated cover, and means for automatically removing said slip-cover preparatory to using the apparatus, substantially as set forth. 5th. In a fire-extinguishing apparatus, the combination, with a receptacle and a fire-extinguishing liquid hermetically sealed within said receptacle, by a tin-foil or easily perforated cover, and means for securing said cover on the top of the receptacle, and a metallic slip-cover to fit over and protect the easily perforated cover, of a metallic protecting case for inclosing said receptacle, and provided with a handle, and means for securing said receptacle within said protecting case, substantially as set forth. 6th. In a fire-extinguishing apparatus, the combination, with a receptacle and a fire-extinguishing liquid hermetically sealed within said receptacle by a tin-foil or easily perforated cover, and means for securing said cover on the top of said receptacle, and a metallic slip-cover provided with a chain or cord for engagement with a hook or its equivalent to automatically remove said cover, of a metallic protecting-case for inclosing said receptacle and detachable therefrom, and provided with a handle and means for securing said receptacle within said protecting case, substantially as set forth.

No. 35,163. Gong Bell. (*Gong.*)

Charles Orland Clark, Cote St. Paul, Que., Canada, (assignee of Wilbur Fisk Starr, East Hampton, Conn., U.S.A., 8th October, 1890; 5 years.

Claim.—1st. In a gong-bell, the combination of the base A, and the actuating lever D hung thereon, and constructed with a toothed segment H, the hammer having its hub constructed with teeth a , b , adapted to engage and escape from the teeth of the segment, the pivot upon which the hammer is hung constructed as a part of the arm secured to the base distant from the pivot-point of the hammer, substantially as described. 2nd. In a gong-bell, the combination of the actuating lever D, the hammer having its hub I, constructed with teeth a , b , the hammer hung upon a pivot on the base, and the ductile wire stop f fixed to the base distant from the said hub, but extending into the path of the hub, substantially as and for the purpose described.

No. 35,164. Clinometer. (*Clinomètre.*)

William Brown Melick, Fred C. Exter, and Thomas J. Cheney, all of St. Louis, Missouri, U.S.A., 8th October, 1890; 5 years.

Claim.—1st. A clinometer, comprising a case 1, having an arbor bearing 12, the spring plate, having an arbor bearing 10, and a push-knob 21, the arbor 11, and the eccentrically weighted circular plate, having a scale, substantially as described. 2nd. A clinometer, comprising a case 1, having an arbor-bearing 12, the spring plate having an arbor-bearing 10, and a push-knob 21, the arbor 11, the pointers 17, and the eccentrically-weighted circular plate having a scale on the face thereof, substantially as described. 3rd. A clinometer, comprising a case 1, having an arbor bearing 12, the spring plate, having an arbor bearing 10 and a push-knob 21, the arbor 11, the pointers 17 and the eccentrically-weighted circular plate 14, having an inclination scale 16 and a grading scale 19 on the face thereof, and mounted on the arbor, substantially as described. 4th. A clinometer, comprising a case 1, having a bearing 12, the bar 6, the spring plate 9, having the bearing 10, and push knob 21, the arbor 11, and the eccentrically weighted circular plate 14, having a scale on the face thereof and mounted on the arbor, substantially as described. 5th. A clinometer, comprising a square case 1, having a circular recess 2, formed with annular steps 3, 4, the lining 5, the bearing 12, the diagonal bar 6, the spring plate 9, having the bearing 10, and the push knob 21, the arbor 11, the eccentrically weighted circular plate 14, having an inclination scale 16, and a grading scale 19, and the pointers 17, substantially as described.

No. 35,165. Back-Stay for Carriage Tops. (*Renfort pour couvertures de voiture.*)

Daniel Conboy, Toronto, Ontario, Canada, 9th October, 1890; 5 years.

Claim.—A short steel strip A, inserted into the back-stay C, in combination with a strap D, fixed to the back-stay A, to connect it to the lazy-back E, substantially as and for the purpose specified.

No. 35,166. Water Filter. (*Filtre.*)

Chester Birge Davis and Henry Riddell, both of Chicago, Illinois, U.S.A., 10th October, 1890; 5 years.

Claim.—1st. In a water filter, the filter tank, in combination with a series of vertically movable delivery pipes, arranged within the tank, and perforated, as described, and actuating devices, whereby said pipes may be moved up and down through the filter bed within the tank to wash the filter bed without removing it from the tank, substantially as and for the purposes specified. 2nd. In a water filter, the tank, in combination with the radial perforated arms, the hydraulic cylinder, the piston within the said cylinder, the inlet pipe and the hollow piston stem, to which said perforated arms are connected, substantially as and for the purposes specified. 3rd. In a water filter, the combination, with the filter tank, of vertically