

guides and in alignment therewith, substantially as described. 6th. The combination, with a gang saw, of two series of guides, one on each side of the gang saw, said guides and saws being in alignment with each other, substantially as described. 7th. The combination, with a gang saw, of a series of guides located adjacent thereto and in alignment therewith, said guides being adjustable horizontally along the frame to vary the distance between them, substantially as described. 8th. The combination, with a gang saw, of a series of guides located adjacent to and in alignment with said saws, said guides being adjusted vertically, substantially as described. 9th. The combination, with a gang saw, of a series of advance cutters, between them, substantially as described. 10th. The combination, with a gang saw, of a series of advance cutters, said cutters made adjustable vertically to vary the depth of cut, substantially as described. 11th. The combination, with a gang saw, of a series of knives attached to a revolving cylinder or frame, said knives being adjustable along said revolving frame, and adjustable also up and down, whereby the distance between the knives and the depth of cut may be regulated, substantially as described. 12th. The combination, with a gang saw, of an upright guide roller located in advance of the saw, against which the side of the log may bear, substantially as described. 13th. The combination, with a gang saw, of an upright guide roller located in advance of the saw, against which the side of the log may bear, and a horizontal roller adapted to bear on the log to force it against the upright roller, substantially as described.

### No. 35,670. Nursing Bottle. (*Biberon*.)

Joseph William Rose and Clyde Chester Balston, both of Brooklyn, New York, U.S.A., 27th December, 1890; 5 years.

*Claim*.—1st. The nursing bottle composed of the separable sections carrying at their meeting portions a packing, substantially as set forth. 2nd. The nursing bottle composed of the separable sections carrying at their meeting portions a packing, combined with a fastening device for securing said sections together, substantially as set forth. 3rd. A bottle consisting of the separable sections, combined with the clamping wires and catch by which the sections are held together, substantially as and for the purposes set forth.

### No. 35,671. Frame for Fancy Work.

(*Cadre pour ouvrage de fantaisie.*)

Granville S. Decatur, Hamilton, Ontario, Canada, 27th December, 1890; 5 years.

*Claim*.—1st. In a fancy work frame, the rollers E, pivoted in a frame A, in combination with the ratchet wheels J, pawls I, and the support K, with its brace M, substantially as and for the purpose hereinbefore set forth. 2nd. In a fancy work frame, the combination of the sides A, having ends B, slotted horizontally to receive a bolt C, the telescoped rollers E, the cranks F, pawls I, ratchet wheels J, and the support K, with its brace M, all arranged substantially as and for the purpose hereinbefore set forth.

### No. 35,672. Pulley. (*Poulie*.)

George William Dryden, Port Perry, Ontario, Canada, 27th December, 1890; 5 years.

*Claim*.—1st. A pulley, having its hub bored larger than the diameter of the shaft it is intended to be applied to, in combination with hubs bored to fit the shaft, detachably connected one on each side of the permanent hub of the pulley, substantially as specified. 2nd. In combination with the spokes of a pulley, of a ring F fitted in it as well as made in the ends of the spokes and arranged to support the wooden rim of the pulley, substantially as specified. 3rd. A pulley, having its hub bored larger than the diameter of the shaft it is intended to be applied to, in combination with a detachable hub bored to fit the shaft, and having a recess or projection formed on it to engage with the projection or recess formed on the permanent hub, substantially as and for the purpose specified.

### No. 35,673. Pulley for Clothes Lines.

(*Poulies pour cordes à linge.*)

Emma Gelinas and Hermine Fauteux, both of Montreal, Quebec, Canada, 27th December, 1890; 5 years.

*Résumé*.—Un nouvel article de manufacture, une poulie, composée de la roue A, b, c, d, avec essieu e, recouverte d'une enveloppe de métal laminé, B, B', ayant la forme g, h, i, j, k, l, m, n, o, p, q, r, et les ouvertures a', a', a', f, f, f, en combinaison avec la bande g', a', a', a', et l'essieu F, g, t, a', t', t', le tout tel que ci-dessus décrit et pour les fins sus mentionnées.

### No. 35,674. Candy Chain, and Process and Apparatus for its Manufacture.

(*Procédé et appareil pour la confection des bonbons.*)

Maximilian Jacker, Chicago, Illinois, U.S.A., 27th December, 1890; 5 years.

*Claim*.—1st. In a machine for making continuous chains from candy, the combination with the system of die rollers A and means for supporting and revolving them, of a conveyer to receive the chain from the die rollers and conduct it away, and driving mechanism imparting movement to the conveyer at a rate of speed corresponding with that of the chain, when issuing from the die rollers, substantially as described. 2nd. In a machine for making continuous chains from candy, the combination with the system of die rollers A, and

means for supporting and revolving them, of a conveyer, having depressions corresponding with the projections of the chain, to receive the chain from the die-rollers, and conduct it away, and driving mechanism imparting movement to the carrier at a rate of speed corresponding with that of the chain when issuing from the die-rollers, substantially as described. 3rd. In a machine for making candy chains, the combination with the system of die-rollers A and means for supporting and revolving them, of the tube N, supported in the line of discharge from the rollers, and having the projections m fitting the bevelled recesses formed by the peripheries of the rollers, an endless carrier, having depressions to correspond with projecting parts of the chain, and driving mechanism for imparting movement to the carrier at a rate of speed corresponding with that with which the chain issues from the die rollers, substantially as described. 4th. In a machine for making candy chains, the combination with the die rollers A and means for supporting and revolving them, of the carrier Q, formed in sections overlapping each other, and extending back and forth in alternate directions, and driving mechanism for imparting movement to the carrier at a rate of speed corresponding with that at which the chain issues from the rollers, whereby the chain, after being formed by the die-rollers, is received upon the first section of the carrier, deflected around the terminal pulley thereof, thus breaking the fin of candy left by the rollers between adjacent links, delivered inverted upon the second section, and finally deposited, substantially as described. 5th. The combination with the fixed disk G, of the bevelled gear rim H, revolvably mounted upon the periphery of the disk G, rotary shafts B mounted in bearings fixed upon the disk G, bevelled gear wheels D fixed upon the outer ends of the shafts B and meshing with the gear-rim H, die rollers A, fixed upon the inner ends of the shafts B, and gear-wheels I connected with the power and meshing with the gear-rim H, substantially as described. 6th. The combination, with the fixed disk G, of the bevelled gear-rim H, revolvably mounted upon the periphery of the disk G, rotary shafts B, mounted in sleeve bearings C, adjustably secured to the disk G, bevelled gear-wheels D, fixed upon the outer ends of the shafts B and meshing with the gear-rim H, die rollers A, fixed upon the inner ends of the shafts B and gear-wheel I, connected with the power and meshing with the gear rim H, substantially as described. 7th. The combination, with the supported disk G and revolvable bevelled gear rim H mounted upon the periphery thereof, of the sleeve-bearings C, provided upon one side with webs s, having flanges bolted to the disk G, and upon the other side with lugs o, plate K bolted to the lugs o and having a central opening for the feed, shafts B mounted in the sleeve-bearings, die-rollers A fixed to the inner ends of the shafts B, bevelled gear wheels D, fixed to the outer ends thereof and meshing with the gear rim H, and bevelled gear wheel I, connected with the power and meshing with the bevelled gear rim H, substantially as described. 8th. The combination, with the supported disk G and revolvable gear rim H mounted upon the periphery thereof, of the sleeve-bearings C, provided upon one side with lugs o, and upon the other side with webs s, having upon their inner ends the feet r and strengthening flanges p, and upon their outer ends the feet r' with the lugs l, bolts g passing loosely through the feet r and r', and securing them to the disk G, nut-bolts k', passing through the lugs l, and impinging against the edges of the flanges p, plate K, having the lugs l', bolts g' passing loosely through the plate K and securing it to the lugs o, nut bolts k passing through the lugs l' and impinging against the lugs o, shafts B mounted in the sleeve bearings C, bevelled gear-wheels D fixed to the outer ends of the shafts B and meshing with the bevelled gear-rim H, die rollers A fixed to the inner ends of the shafts and bevelled gear-wheel I, connected with the power and meshing with the gear-rim H, substantially as described. 9th. In combination with the supported disk G, having upon its periphery the gear-rim H, shafts B mounted in bearings upon the disk G and carrying upon their inner ends the die-rollers A and upon their outer ends the gear-wheels D meshing with the gear-rim H, and gear-wheel I mounted on a shaft in bearings and meshing with the gear-rim H, the driving pulley P for the carrier, mounted upon a shaft in bearings in position to receive the chain as it emerges from the discharge opening, a power shaft and shaft, and connected gearing, connecting the power shaft with both the gear-wheel I and pulley P, substantially as described. 10th. In a machine for making candy chains, the combination with the die rollers A, mechanism for supporting and driving them, a travelling carrier receiving the chain from the die rollers, and mechanism for imparting movement to the carrier at a rate of speed corresponding with that with which the chain issues from the die rollers, of an artificial cooling device for cooling the chain as it is advanced by the carrier, substantially as described. 11th. In a machine for making candy chains, the combination with the die rollers A, mechanism for supporting and driving them, and travelling carrier Q receiving the chain from the die-rollers, of the slotted receptacle S, over which the carrier moves, and air-blast pipe R entering the receptacle S, substantially as described. 12th. In a machine for making candy chains, the combination with the die rollers A, mechanism for supporting and driving them, and travelling carrier Q receiving the chain from the die-rollers, of the slotted receptacle S, over which the carrier moves, and valved air-blast pipes R, and R', leading the one into the receptacle S and the other to the die-rollers, substantially as described. 13th. The carrier belt, formed of the flexible bands g, in combination with the metal cross-plates f, having the depressions e and d, substantially as described.

### No. 35,675. Wrench. (*Cle à écrou.*)

Gawen Gilmore, Cote St. Paul, Quebec, Canada, assignee of Oramel Charles Stanley, of Essex Junction, Vermont, U.S.A., 29th December, 1890; 5 years.

*Claim*.—1st. In a wrench, the combination with the shank having a rigid jaw, and with the movable slide on such shank, of an opening and concave seat formed in such slide, a jaw having a shank, the end of which is convex to fit such seat, and a spring connection for holding such jaw in place, as set forth. 2nd. In a wrench, the combination, with the shank, partially screwed and having a rigid