

at one end with a yielding pressure against the pencil, and projecting outwardly at its other end to form a handle or thumb-piece, whereby the clamping end may be separated from the pencil, thereby permitting the pencil and its attachments to be disengaged from the garment without liability of separating the pencil from the attachment, as set forth.

### No. 17,205. Cheque and Account Book.

(*Livret de mandats et de comptes.*)

Alexander Gardner, Toronto, Ont., 11th July, 1883; 5 years.

*Claim.*—1st. In a cheque-book cover, the slotted spring receiver B bound into the cover, as shown and for the purpose specified. 2nd. In a cheque-book cover, the wire spring E extending through the back of the book, in combination with the slotted spring receiver B, as shown and for the purpose specified.

### No. 17,206. Tub and Box Fastener.

(*Cercle de tinette et de boîte.*)

William H. Blake, 2nd, Swanton, Vt., U. S., 11th July, 1883; 5 years.

*Claim.*—1st. A box and tub fastener composed of a strip of sheet-metal having a tack inserted through each opposite end, and provided with means for holding the tacks in place, substantially as set forth. 2nd. The box and tub fastener composed of a strip of sheet-metal A having a tack B B inserted through each end, and the extreme projecting ends *a a* of the strip doubled upon the heads of the tacks, as shown and described. 3rd. The box and tub fastener composed of a strip of sheet-metal A having a tack B B inserted through each end, said ends with the tacks being doubled upon the under side of the body of the strip, as shown and described. 4th. A box and tub fastener, of the described class and construction, having its doubled ends *a a* soldered down upon the body of the strip, substantially as set forth. 5th. In a box and tub fastener of the described construction, *viz.*: having doubled ends *a a*, the fastening-loop or clamp-strip C, constructed and arranged substantially as and for the purpose shown and specified. 6th. The box and tub fastener composed of a sheet-metal strip A having a tack B inserted near each end, and the projecting parts *a a* bent obliquely over and folded down upon the heads of the tacks, forming triangular lips *b b* overlapping the under side of the strip, substantially as set forth.

### No. 17,207. Art of Manufacturing Paper Pulp. (*Art de fabriquer la pâte à papier.*)

George Archbold, Oswego, N. Y., U. S., 11th July, 1883; 15 years.

*Claim.*—1st. The process of disintegrating cellulose or other fibrous vegetable material described, which consists in producing the acid sulphite of lime in the structure of the substances treated by the chemical treatment employed, substantially as set forth. 2nd. The improvement in the art of manufacturing paper pulp described, which consists in, first, cutting the vegetable substance to be treated into suitable pieces, then treating it with dilute milk of lime, then subjecting it to the action of sulphurous acid gas, then subjecting it to steam pressure, and then removing the chemicals used, substantially as set forth.

### No. 17,208. Improvements in Pump Valves.

(*Perfectionnements aux clapets des pompes.*)

Joseph Barrett, Petrolia, Ont., 11th July, 1883; 5 years.

*Claim.*—The combination of the two sections A and B with the second ball and centre stop, substantially as and for the purposes set forth.

### No. 17,209. Carriage Shaft Coupling.

(*Arçon de limonière.*)

Lachlan E. McKinnon, St. Catharines, Ont., 11th July, 1883; 5 years.

*Claim.*—1st. The plate B with a projecting part formed into a hook F, substantially as and for the purpose set forth. 2nd. The block C fastened to plate B by bolt D or otherwise, substantially as and for the purpose set forth. 3rd. The combination of the eye A, the hook F, the block and the packing E, substantially as and for the purpose set forth. 4th. The combination of the eye A, the hook F and the packing E, substantially as and for the purpose set forth. 5th. The combination of the hook F and the block C, either with or without the packing E, substantially as and for the purpose set forth.

### No. 17,210 Improvements in the Manufacture of Filling for Mattresses, etc. (*Perfectionnements dans la fabrication de la bourre à matelas, etc.*)

George A. Sammet and George W. Sammet, Boston, Mass., U.S., 11th July, 1883; 5 years.

*Claim.*—A filling composed of feathers rendered soft, pliant and elastic by curling, crimping, crushing or breaking their quills or stems, and combing their foliage, said filling consisting of one grade only, or of a mixture of grades of feathers so treated, or of one or more grades so treated, combined with a fine grade of feathers not curled, crimped, crushed or broken, as set forth. A carder G in combination with a picker H, an air blast or fan blower E and a series of corrugated or fluted rolls *p q r s t*, constructed to operate substantially in the manner and for the purpose described. The described mode of treating feathers by first passing them through a picker, next in subjecting them to the action of a fan blower or other air blast, then to a series of corrugated or fluted rolls, afterwards to a carder and finally cleansing them by well-known means, as specified.

### No. 17,211. Improvement in Pipe Reamers.

(*Perfectionnement des alésoirs à tuyaux.*)

James A. Lancaster, New York, N. Y., U. S., 11th July, 1883; 5 years.

*Claim.*—1st. In a conical pipe-reamer, the blade C in combination with the set screw D D, substantially as and for the purpose set forth. 2nd. In a conical pipe-reamer, the blade C in combination with the set screw D and adjusting screws E E, substantially as and for the purpose set forth. 3rd. A conical pipe-reamer having the blade C formed out of the reamer itself, substantially as and for the purpose set forth.

### No. 17,212. Improvements in Nut Locks.

(*Perfectionnements aux écrous de sûreté.*)

Arthur Dion et Eugène Dubord, Quebec, Que., 11th July, 1883; 5 years.

*Reclame.*—1o. La combinaison d'une noix C avec un anneau D se projetant sur la noix C, tel que décrit. 2o. La combinaison de l'anneau D et des coupes L L, et de la rainure I, tel que décrites pour les fins indiquées.

### No. 17,213. Improvement in Brake Shoes.

(*Perfectionnement des sabots de freins.*)

John J. Lappin, Toronto, Ont., 11th July, 1883; 5 years.

*Claim.*—1st. The manufacture of a brake shoe with deeply chilled portions C in the face thereof, and soft portions D between the chilled parts, in such proportions as to ensure greater durability in wear and prevent the skidding of the wheels, substantially in the manner described. 2nd. The placing of pieces of metal, wrought or cast-iron or steel c, in the face of the pattern E of the shoe, prior to the mould being made and filled with the molten metal, said pieces placed and fitted so that on the withdrawal of the patterns the pieces will remain in the mould and be slightly attached to the shoe and will fall off in the cleaning and trimming thereof.

### No. 17,214. Improvements in Candlesticks.

(*Perfectionnements aux chandeliers.*)

Charles Sherman and Louis Lackse, Havilah, Cal., U. S., 11th July, 1883; 5 years.

*Claim.*—1st. A candle-holder consisting of the wires or strips B, fixed to the base A extending up to a point where they are bent inward and downward to form an elastic pendulous inner portion C, with cross supports D, substantially as described. 2nd. The candlestick A B C in combination with the standard F and sleeve H, and the ring I resting upon the edge of the candle and supporting the globe K from the arms J, said ring being attached to and guided by the sleeve H, substantially as described.

### No. 17,215. Medicine Syrup. (*Syrup médicinal.*)

Evariste Tremblay, Windsor Mills, Que., 11th July, 1883; 5 years.

*Reclame.*—Un sirop médicinal composé de sulfate de morphine, de teinture de sanguinaire, de vin d'antimoine, de vin d'Ipecac, d'huile d'amande amère, de teinture de digitale et de sirop simple, mélangés ensemble dans les proportions et pour les fins décrites.

### No. 17,216. System of Laying Electrical Conductors. (*Mode de posage des conducteurs électriques.*)

John Griesves and John H. Bleoo, Paterson, N. J., U. S., 12th July, 1883; 5 years.

*Claim.*—1st. The insulating compound described consisting in the hydrate or carbonate of lime mixed with fused rosin, in the manner and proportions substantially as set forth. 2nd. The means of rendering the said composition pliable by the addition of a fixed oil, in the manner and proportions substantially as set forth. 3rd. The improved conduit for electrical conductors consisting in a metallic pipe provided with a lining of our adherent insulating compound, substantially as set forth. 4th. The combination, with the insulated wires enclosed in the conduit of the naked discharging wire connected electrically with the ground and with the insulating coatings of the conducting wires, substantially as and for the purpose set forth. 5th. The devices for enclosing the wires in an insulated casing in the ground, consisting in the conduits A lined with insulating material, as described, and the chambers J insulated within well castings I and connected with the said castings and with the conduits A by the water tight sleeves *a* and packing *b*, as shown and described. 6th. The means for tapping the main conduit for service connections, without boring the same or breaking its insulating lining, consisting in the nipples F inserted in the conduit at suitable intervals, and provided with removable caps G, the nipples and caps being lined with insulating material, substantially as and for the purpose set forth.

### No. 17,217. Machines for Manufacturing Felt Boots, Shoes and Stockings. (*Machines pour la fabrication des chaussures en feutre.*)

James Brandy, Lawrence, Mass., U.S., 12th July, 1883; 5 years.

*Claim.*—1st. The table B carrying the carriage Y and rollers *l l*, in combination with operative mechanism therefor, said carriage and rollers being adapted to move longitudinally at a different speed from the table, substantially as and for the purpose set forth. 2nd. The rollers *l l* provided with the gears *m m*, the shaft *g* having the spline *k* and provided with the gears *i h*, and the carriage *y* having the rack *5*, in combination with the gears W W<sub>1</sub>, shaft Z, gear *b* and operative mechanism, substantially as specified. 3rd. The shipping bar *q* provided with the studs *x x*, in combination with the stops *t t*, shipping levers *p p*, gears W W<sub>1</sub>, rack *5* and operative mechanism, substantially as and for the purpose set forth. 4th. In a machine for making felt boots, shoes or stockings, the following instrumentalities, to wit: a cone or former for receiving the sliver or felting material from the card, a pair of rollers adapted to receive and support the cone and