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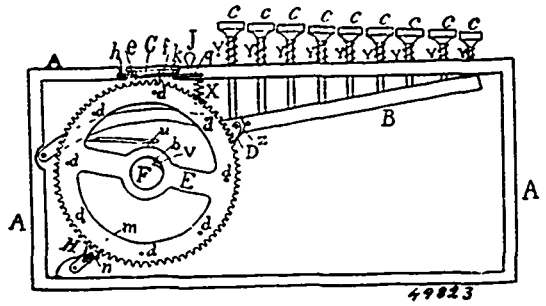
INVENTIONS PATENTED.

NOTE.—Patents are granted for 18 years. The term of years for which the fee has been paid, is given after the date of the patent.

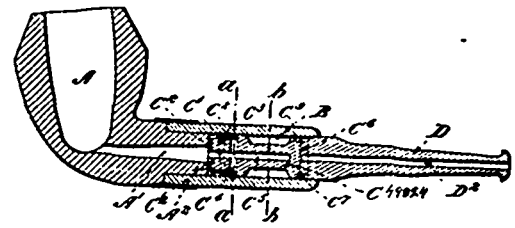
No. 49,823. Calculating Machine. (*Machine à calculer.*)



Edgar Troyer, Toronto, and Joshua Snider, Drysdale, both of Ontario, Canada, 3rd September, 1895; 6 years.

Claim.—1st. In a calculating machine, the combination of wheels loosely arranged on a shaft and having ten or any multiple of ten cogs on their face, and having a pin at the side of every tenth cog, levers designed to be raised by the said pin and having a dog or pawl engaging the cogs of the next wheel, substantially as specified. 2nd. In a calculating machine, the combination of a box or a frame, an axle or shaft arranged in the frame and having a portion of its periphery removed so as to form a free groove on one side, and a shoulder on the other, and cogged or toothed wheels having a spring pressed detent *u* designed to engage the same, substantially as specified and for the purpose indicated. 3rd. In a calculating machine, the combination of a plurality of cogged or toothed wheels having any multiple of ten cogs, and arranged on an axle or shaft, levers designed to rotate said wheels by means of a pawl, levers designed to transmit motion from one wheel to another by means of a pawl, and crown pinions having cogs or teeth engaging the said wheels and arranged in an adjustable frame or plate carrying the said pinion, substantially as set forth. 4th. In a calculating machine, the combination of a frame provided its top wall with a slot *u*, and having off-sets *s*, *t*, a plurality of toothed or cogged wheels arranged on an axle or shaft, levers designed rotate said wheels and levers designed to transmit motion from one to another by means specified, crown pinions having cogs engaging those of the said wheels and arranged in an adjustable frame or plate carrying said pinions, and a handle *u* connected therewith for changing directions of rotations, substantially as specified. 5th. In a calculating machine, the combination of a frame having a slot *r*, with off-sets *s*, *t*, on its top wall, a plurality of cogged or toothed wheels arranged on a shaft and having lateral pins or projections, levers designed to be engaged by said projections, and having pawls designed to engage the teeth of the next wheel, key levers having pawls for engaging in the teeth of said wheels, crown pinions with cogs engaging those of the said wheels, an adjustable plate holding said pinions and a handle connected with said plate and designed to change the direction of rotation of said pinions, substantially as specified.

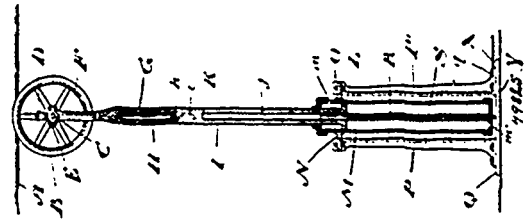
No. 49,824. Tobacco Pipe. (*Pipe.*)



Hugh Dixson, Sydney, assignee of Frederick William Schroeder, Newton, both of New South Wales, 3rd September, 1895; 6 years.

Claim.—In smoking pipes, the combination and arrangement with the bowl of a condensing and deposit chamber formed around a plug having piston heads thereon, and having independent connections with the bowl orifice and with the mouthpiece orifice in the manner, and for the purposes herein described, and explained and as illustrated in the drawings.

No. 49,825. Trolley for Electric Railways.
(*Trollée pour chemin de fer électrique.*)



Cecil Hepburn Burns, Toronto, Ontario, Canada, 3rd September, 1895; 6 years.

Claim.—1st. A trolley wheel in combination with a vertical trolley pole, provided with a collapsible section held normally in position by spring pressure, and trunioned on standards fixed to the top of the car, substantially as described and specified. 2nd. A trolley wheel journalled on a standard, in combination with a vertical trolley pole on which said standard is swivelled, and provided with a collapsible section held normally in position by spring pressure and trunioned on standards centrally fixed to the top of the car, substantially as described and specified. 3rd. A trolley wheel journalled on a standard, swivelled on the end of a vertical hollow trolley pole and provided with a piston head, in combination with an oscillating