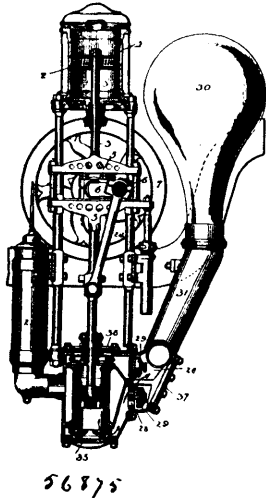


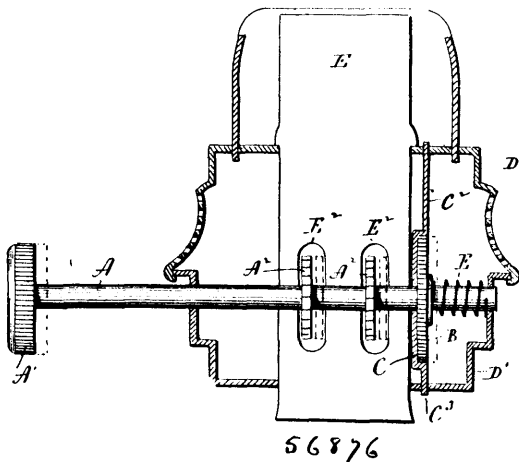
No. 56,875. Fire Engine Pump.
(*Pompe à incendie.*)



The American Fire Engine Co., Seneca Falls, New York, assignee of Charles H. Fox, Cincinnati, Ohio, U.S.A., 4th August, 1897; 6 years. (Filed 10th April, 1897.)

Claim.—In a steam fire-engine, the combination of a rectangular horizontally-arranged casting formed with an inner suction-chamber upper and lower horizontal partitions and two chambers outside of said partitions each divided by a transverse wall into two compartments which operate reciprocally as suction and force-chambers, two pump-barrels mounted between the horizontal partitions, extending through but not communicating with the main suction-chamber and opening each into two opposite reciprocally-acting compartments, water supply inlets communicating with the respective ends of the main suction-chamber, valved openings arranged around the respective ends of the pump-barrels and forming a communication between the main chamber and the reciprocally-acting compartments, upper and lower cap-plates closing said compartments, a suitable discharge-chamber, an independent valved passage leading from each of the reciprocally-acting compartments to the discharge-chamber, and an engine of substantially the character described, controlling pump-pistons working in the respective barrels, as explained.

No. 56,876. Lamp Burner. (*Bec de lampes.*)

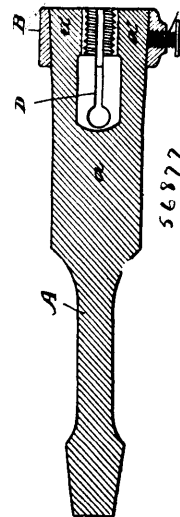


John Charles Miller and Albert Falcott Booth, Waterbury, Connecticut, U.S.A., 4th August, 1897; 6 years. (Filed 17th April, 1897.)

Claim.—1st. A burner having a longitudinally movable, normally locked wick-adjusting spindle, provided with a locking-wheel, in combination with means with which the said wheel is normally engaged for locking it against rotation, and from which it is disengaged by moving it longitudinally in one direction or the other. 2nd. In a burner, the combination with a longitudinally movable spindle, of a locking-wheel rigidly secured thereto, a locking-plate with which the wheel is normally engaged for locking the spindle against rotation, and a spring for maintaining the wheel in locking

engagement with the said plate. 3rd. In a burner, the combination with a longitudinally movable wick-adjusting spindle, of a locking-wheel rigidly secured thereto, a vertically arranged locking-plate located in the plane of the wheel, and formed with a locking recess with the edge of which the periphery of the wheel co-acts to lock the wheel against rotation, a spring encircling the extreme inner end of the spindle, and bearing against the wheel for forcing the same into the said recess, and normally maintaining it therein, one or more star-wheels mounted upon the spindle for engagement with the wick, and a wick-tube having one or more slots for the clearance of the said star-wheels.

No. 56,877. Tool to Re-cut or Restore the Thread of Bolts and Screws. (*Outil pour réparer les filets de vis.*)



Joshua J. Frith, Boissevain, Manitoba, Canada, 4th August, 1897; 6 years. (Filed 17th April, 1897.)

Claim.—1st. A tool for re-cutting or restoring the threads on bolts and screws, consisting of a die comprising a body composed of compressible jaws, a central screw-threaded bore formed in the body inwardly from the end of the jaws, a compression band embracing the jaws, a compression screw passing through the band, and a shank fitted to enter the stock of a brace formed integrally with the body, substantially as specified. 2nd. A tool for re-cutting or restoring the threads on bolts and screws, consisting of a die comprising a body composed of compressible jaws, a central screw-threaded bore formed in the body inwardly from the end of the jaws, a compression band embracing the jaws, and a compression screw passing through the band, the perimeter of the body of varying diameters decreasing from the ends of the jaws, substantially as specified. 3rd. A tool for re-cutting or restoring the threads on bolts and screws, consisting of a die comprising a body composed of compressible jaws, a central screw-threaded bore formed in the body inwardly from the end of the jaws, a compression band embracing the jaws, a compression screw passing through the band, and a shank fitted to enter the stock of a brace formed integrally with the body, the perimeter of the body of varying diameters decreasing from the ends of the jaws, substantially as specified. 4th. A tool for re-cutting or restoring the threads on bolts and screws, consisting of a die comprising a body having a central screw-threaded bore to re-cut or restore the thread, and a shank to enter the stock of a brace, substantially as specified.

No. 56,878. Machine for Soldering End Pieces to Cans.
(*Machine pour souder les boîtes métalliques.*)

James Alexander Booth, Everett, assignee of Thor Helen Neilson, Boston, both in Massachusetts, U.S.A., 4th August, 1897; 6 years. (Filed 9th April, 1897.)

Claim.—1st. The combination of a series of arms, provided with movable can holders, a central standard adapted to be revolved and to which are attached said arms, a live and a dead spindle adapted to seize and revolve the can-body, a movable heater, provided with a heating plate, and suitable means for presenting the solder, and also for releasing and removing the can from the spindles, after the soldering is completed, and all arranged and adapted to operate, substantially as and for the purpose set forth. 2nd. In an automatic machine for soldering end pieces to cans, the gear wheel v , provided with the cam y^4 , the gear wheel y^5 , the loose gear wheel y^6 , provided with the pin x , and the lever y^6 , in combination with the gear