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## RECORD





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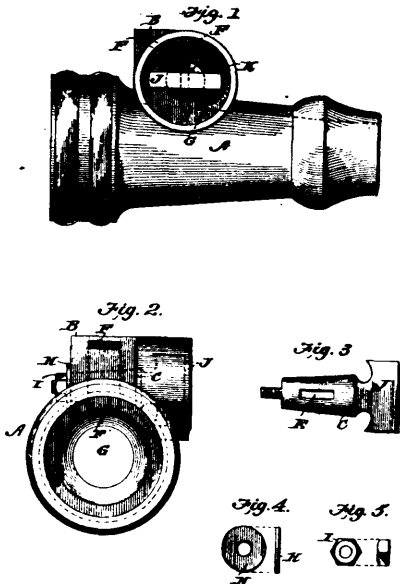
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### INVENTIONS PATENTED.

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. 63,392. Nozzle. (*Lance de boyaux.*)



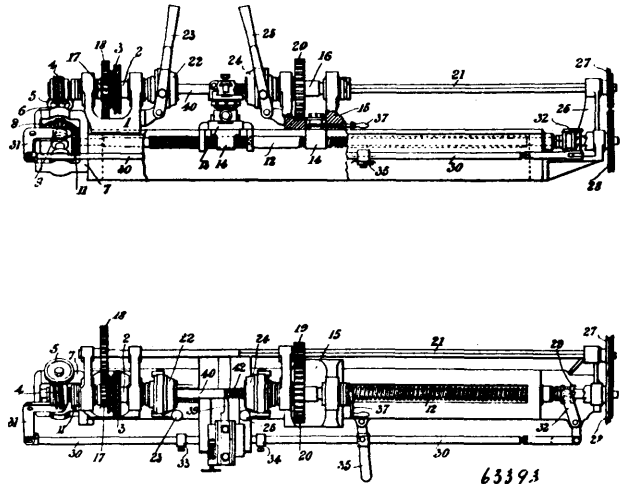
63392

James Kitchen, assignee of James Wright, both of Roslyn, Washington, U.S.A., 7th July, 1899; 6 years. (Filed 9th March, 1899.)

*Claim.*—1st. A hose nozzle, having at one side a valve casing having a port communicating with the bore of the nozzle and its outer end arranged to discharge a protecting stream upon the hose-man and the valve operating in said casing, substantially as set forth. 2nd. A nozzle, having at one side a valve casing provided with a port communicating with the bore of the nozzle, such casing being provided at one end with a recess, and the valve turning in the casing and controlling the port thereof and provided with a handle lying in the end recess of the casing, substantially as set forth. 3rd. A nozzle, having a valve casing provided with a port by

which to deliver a protecting stream, such port being widened laterally, and a valve for controlling such port, substantially as set forth. 4th. A nozzle, provided at one side with a casing having a port arranged to discharge rearwardly, and a valve controlling such port, substantially as set forth.

No. 63,393. Machine for Making Metallic Ribbon.  
(*Machine pour la fabrication de ruban métallique.*)



63393

The Porous Accumulator Company, assignee of John Charles Howell, all of 24 Queen Victoria Street, London, England, 7th July, 1899; 6 years. (Filed 3rd January, 1899.)

*Claim.*—1st. In a machine for the manufacture of metallic ribbon, the combination with mechanism adapted to cut a metal tube, of a mandrel having both a rotating and a receding motion with relation to the tube, and adapted to collect and spirally wind the ribbon so produced, substantially as described. 2nd. In a machine for the manufacture of metallic ribbon, the combination with mechanism adapted to cut a metal tube, of mechanism adapted to collect, crinkle and spirally wind the ribbon so produced, substantially as described. 3rd. In a machine for the manufacture of metallic ribbon, the combination with the slide rest and cutting tool of a leading screw and a tail stock operated by such leading screw in a reverse direction to the motion of the slide rest, substantially as described. 4th. In a machine for the manufacture of metallic ribbon, the combination with the slide rest and cutting tool of a leading screw, a tail stock operated in a reverse direction to the slide rest by such leading screw, and means whereby a slight independent movement may be imparted to the tail stock, substantially as described. 5th. In a machine for the manufacture of metallic ribbon, the combination with a chuck carrying the material to be operated upon, of a slide rest, a mandrel carried by the tail stock, gearing operating the chuck and mandrel at the same or different speeds, and a leading screw operating the slide rest and tail stock in opposite directions at the same or different speeds, substantially as set forth. 6th. In a machine for the manufacture of metallic ribbon, the combination with a chuck carrying the material to be operated upon, and a mandrel upon which the ribbon is to be