

In a pump, a drip cap having a sleeve thereon, in combination with a metal tube secured within the sleeve and a bamboo tube surrounding the metal tube and having its end inserted in a recess in the drip cap, substantially as and for the purpose specified. 13th. In a pump, a metal tube and a nozzle, in combination with a drip cap secured in position at or about the junction of the two, substantially as and for the purpose specified. 14th. In a pump, a nozzle and a tube to which the said nozzle is secured, in combination with a drip cap having a sleeve thereon within which the said tube is secured, substantially as and for the purpose specified. 15th. In a pump, a spray nozzle comprising a casing internally threaded and provided with a water inlet in one side thereof and a water outlet in one end in combination with a spindle passing through a suitable packing in the other end of the casing, and provided with a square portion and a needle on its end, a nut threaded to screw loosely within the casing and having a recess formed therein to fit the squared part on the plunger, and a coil spring bearing against the head of the spindles and the casing, substantially as and for the purpose specified. 16th. In a pump, a spray nozzle comprising a casing internally threaded and provided with a water inlet in one side thereof and a water outlet in one end, in combination with a spindle provided with a square portion and a needle on its end, a nut threaded to screw loosely within the casing and having a recess formed therein to fit the squared part on the plunger, a washer on the spindle with a bevelled recess, a coil spring between the washer and the nut, and the casing, substantially as and for the purpose specified. 17th. In a pump, a plunger comprising two parts longitudinally movable upon one

another and so shaped as to form between them an external recess in combination with a spring mechanism tending to draw the part, of the plunger together, substantially as and for the purpose specified. 18th. In a pump, a plunger comprising two parts longitudinally movable upon one another and so shaped as to form between them and external recess with bevelled sides in combination with spring mechanism tending to draw the parts of the plunger together, substantially as and for the purpose specified. 19th. In a pump, a plunger comprising two parts made longitudinally movable upon one another and so shaped as to form between them an external recess with bevelled sides, in combination with a spindle rigidly connected to one part of the plunger and extending through a shouldered hole formed in the other part, a nut upon the end of the spindle, and a spring upon the spindle between the nut and the shoulder within the said hole, substantially as and for the purpose specified. 20th. In a pump, the combination of the following elements comprising a plunger, the part e^1 , having the sleeve g^1 , formed thereon and provided with shoulders i^1 and j^1 , the part d^1 , centrally recessed to receive the sleeve g^1 , the nut shaped to engage the shoulder and the spring engaging the nut and the shoulder, each part of the plunger being so shaped as to form between them an external recess for packing, substantially as and for the purpose specified. 21st. In a pump, and in combination with the air chamber and discharge pipe thereof, a plate centrally divided and provided with a flange z , adapted to embrace the said parts and means for clamping the two portions of the plate together, substantially as and for the purpose described.