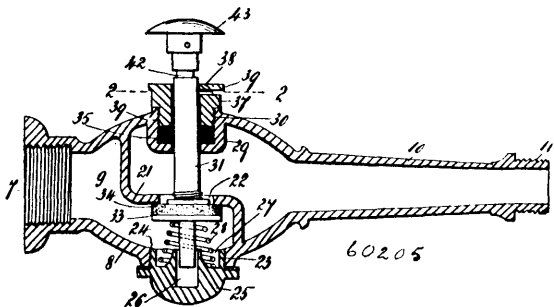


of said bar, and further depression thereof projects the same, and means for releasing said rod and bar from engagement. 5th. In a hose-nozzle the combination of a horizontally-movable bar mounted therein, a conical head upon the end of said bar, adapted when retracted to open the mouth of the nozzle, and when projected to cause the same to spray, a spring surrounding the bar to force the same rearwardly, a depressible rod or plunger mounted in the nozzle and carrying a valve, a spring normally raising said plunger and closing the valve, said plunger being in contact with the end of the bar, having a shoulder thereon, and reduced in diameter to permit said bar to retract when the plunger is depressed, and provided with a conical or bevelled projection to project said bar when the plunger is further depressed and means for projecting said bar beyond the greatest diameter of the plunger to release said plunger therefrom, and restore the nozzle to its normal position. 6th. In a hose-nozzle the combination of a horizontal bar mounted therein to be horizontally movable and decreased in diameter at the end, a conical head upon said end, adapted when retracted to open the mouth of the nozzle, and when projected to cause the same to spray, a spring surrounding said bar to force the same rearwardly, said bar being bevelled upon its upper face at the rear end, and inclined or bevelled upon its side, a depressible rod or plunger mounted in the centre of the nozzle and carrying a valve, a spring beneath said plunger to normally raise the same and close the valve, said plunger being in contact with the end of the bar, provided with a shoulder and reduced in diameter to permit the same to retract when the plunger is depressed, a conical or bevelled projection upon said plunger, adapted to engage the end of the bar when said plunger is further depressed and project the same, a rod sliding in the side of the nozzle carrying a conical or bevelled head, adapted to engage the bevelled side portion of the bar to project the same beyond the greatest diameter of the plunger to release said plunger from the bar, and restore the nozzle to its normal position. 7th. In a hose-nozzle the combination of an angular integral partition extending through the centre of the same, and having a horizontal extension forming a valve seat, a plurality of annular bevelled flanges or projections upon the rear end of the nozzle to form shoulders, whereby a hose may be frictionally secured upon the end thereof, a detachable flaring mouth screwed into the forward end of the nozzle, a depressible rod or plunger mounted vertically in the nozzle, and normally raised by a spring beneath the same, a valve mounted upon said rod beneath the valve-seat, whereby said valve is normally closed, means for securing the plunger in the depressed position and the valve open, and means for releasing the same.

#### No. 60,205. Nozzle. (Jance.)



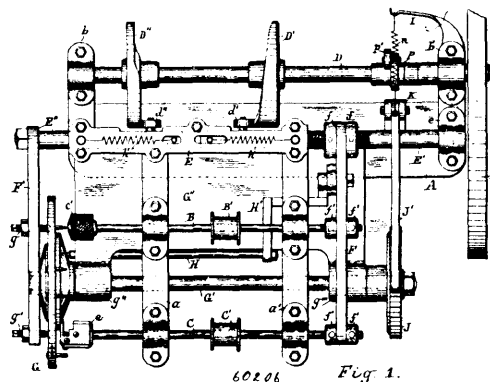
Edwin Ferris, Mont Clair, New Jersey, assignee of Henry Nicholsburg, New York City, both in the U.S.A., 3rd June, 1898; 6 years. (Filed 5th March, 1898.)

**Claim.**—1st. A water nozzle, comprising a body portion, in which is formed an enlarged chamber, and one end of which is provided with means for securing it to a flexible tube or pipe and the other end with an extension to which the discharge nozzle proper is secured, said chamber being provided centrally thereof with a longitudinal partition-plate which is provided with a central opening through which passes a spring-operated shaft which is provided with a valve which is adapted to close said opening, said shaft being projected through an opening in said chamber at one side thereof, which is closed by a screw-threaded plug in which is formed a transverse slot or groove in which is mounted a spring-operated lever, and said shaft being provided with an annular groove in connection with which said lever operates, substantially as shown and described. 2nd. A nozzle, comprising an enlarged body portion, at one end of which is a head by means of which the nozzle may be connected with a tube or pipe, the other end of said body portion being provided with an extension adapted to receive a discharge nozzle proper, said enlarged body portion being provided with a chamber in which is a partition-plate provided with a central opening, said body portion being also provided at one side with an opening which is closed by a screw-threaded plug in which is formed a cavity or recess, and at the opposite side with a tubular inwardly directed casing, and a spring-operated shaft passing through said chamber, one end of which enters the cavity or recess in said screw-threaded plug and the other end of which passes through said tubular casing and through a screw-threaded plug mounted therein, said last-named

screw-threaded plug being provided at one side with a transverse slot or groove in which is placed a spring-operated lever, and said shaft being provided with an annular groove in connection with which said lever operates and with a valve by which the opening in the partition-plate is closed, substantially as shown and described. 3rd. A discharge nozzle, comprising an enlarged portion 16, bell-shaped mouth 17, flange 18, bar 19, and disc 20, substantially as and for the purpose set forth. 4th. A nozzle, provided with an enlarged body portion, in which is formed a partition which is provided with a central opening, and a transversely-movable spring-operated shaft which is provided with a valve adapted to close said opening, and means for locking said shaft and said valve in an opening position, consisting of a screw-threaded plug mounted in one side of the body portion of the nozzle through which said shaft passes, said plug being provided with a spring-operated lever, and said shaft with a groove in which said lever operates, substantially as shown and described.

#### No. 60,206. Trimming and Drilling Machine.

(Machine à forer et ajuster.)



The Morse-Keefer Cycle Supply Company, assignee of Arthur Jacob Morse, all of Salisbury, Connecticut, U.S.A., 3rd June, 1898; 6 years. (Filed 9th March, 1898.)

**Claim.**—1st. In a nipple finishing machine, the combination of a disc provided with a circular series of apertures to hold nipples, means to rotate the disc intermittently, a longitudinally movable bar a guide-way for the bar, the driving shaft, a cam-wheel on the driving shaft to move the bar, a spindle adapted to be reciprocated in bearings by said bar, a tool on the end of the spindle to operate on the nipples, means to rotate the spindle, a second longitudinally movable bar in a guide-way, a cam on the driving shaft to move the bar, and an arm carried by the said second bar and extending on the opposite side of the disc, as set forth. 2nd. In a nipple finishing machine, the combination of a disc provided with a concentric series of apertures to hold the nipples, a shaft for the disc, a ratchet-wheel on the shaft, a pawl engaging the ratchet-wheel, the lever K, connected to the pawl, a ball crank lever pivoted to the frame and to the latter lever, one arm of the ball crank lever serving as a detent for the ratchet-wheel, a contact carried on the lever K, for engagement with the other arm of the ball crank lever, a cam on the driving shaft to engage the lever K, a longitudinally movable bar, a guide way for the bar, the driving shaft, a cam-wheel on the driving shaft to move the bar, a spindle adapted to be reciprocated in bearings by said bar a chuck on the end of the spindle to hold a tool to operate upon the nipples, and a pulley on the spindle for rotating the same, as set forth. 3rd. In a nipple finishing machine, the combination of a disc provided with a concentric series of apertures, a shaft for the disc, a ratchet-wheel on the shaft, a pawl engaging the ratchet-wheel, the lever K, a ball crank lever pivoted to the frame at its angle and provided with a projection connected to the lever K, and a detent on one of its arms, an adjustable contact on the lever K, to engage the other arm of the ball crank lever, a roller carried on a projection extending from the driving shaft to operate the lever K, a longitudinally movable bar, a guide-way for the bar, the driving shaft, a cam-wheel on the driving shaft to move the bar, a spindle adapted to be reciprocated in bearings by said bar, a chuck on the end of the spindle to hold a tool to operate upon the nipples, and a pulley on the spindle for rotating the same, as set forth. 4th. In a nipple finishing machine, the combination of a disc provided with apertures to hold the nipples, means to rotate the disc intermittently, a reciprocating bar carrying a pair of parallel rotatable spindles parallel with the axis of the disc, a driving shaft, a cam-wheel on the driving shaft to move the said bar, cutters on the ends of the spindles to operate on the nipples, and means to drive spindles, as set forth. 5th. In a nipple finishing machine, the combination of a disc provided with apertures to hold the nipples, means to rotate the disc intermittently, a reciprocating bar carrying a pair of parallel rotatable spindles parallel with the axis of the disc, a driving shaft, a cam-wheel on the driving shaft to move the said bar, cutters on the ends of the spindles to operate on the nipples, and the means to drive the spindles, a second longitudinally