F. J. BRINK.

DISTRIBUTER.

APPLICATION FILED MAY 17, 1912.

1,067,780.

Patented July 15, 1913.

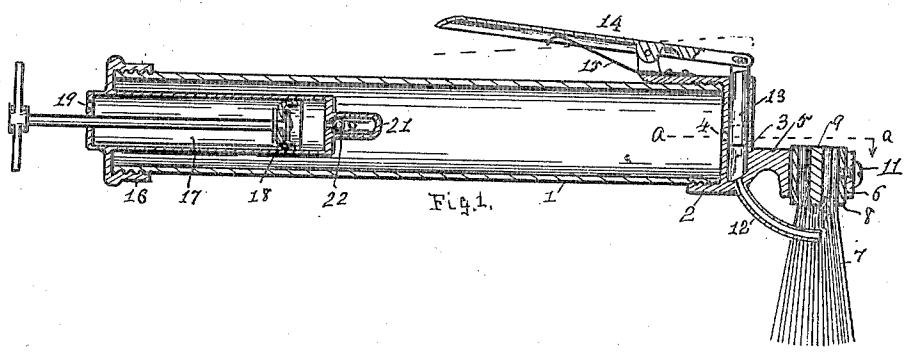


Fig. 1.

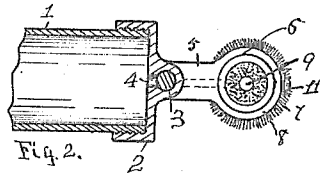


Fig. 2.

Witnesses.
James G. Carr.
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UNITED STATES PATENT OFFICE.

FRANK J. BRINK, OF CINCINNATI, OHIO, ASSIGNOR TO ACKLEY AND BRINK MANUFACTURING COMPANY, OF CINCINNATI, OHIO, A COPARTNERSHIP.

DISTRIBUTER.

1,067,780. Specification of Letters Patent. Patented July 15, 1913.

Application filed May 17, 1912. Serial No. 698,017.

To all whom it may concern:

Be it known that I, FRANK J. BRINK, a citizen of the United States, residing at Cincinnati, Ohio, have invented a new and useful Improvement in Distributers, of which the following is a specification.

My invention relates to distributers adapted to use for applying oil to belts or for other suitable purposes, and the objects of my improvements are to provide means for utilizing air under pressure for supplementing the action of gravity in discharging the oil from a container to the distributing brush; to provide means for automatically closing the discharge opening, and to provide simple and durable construction and assemblage of the various members for securing facility of operation and efficiency of action. These objects may be attained in the following described manner, as illustrated in the accompanying drawings, in which:

Figure 1 is a longitudinal diametrical section of a distributer embodying my improvement, and Fig. 2 a section on the line *a*—*a* of Fig. 1.

In the drawings, 1 represents a metal tube and 2 a cap secured on the front end thereof and formed with a cylindrical chamber 3 which communicates with the interior of the tube through the discharge opening 4. A bracket 5 projects from cap 2 and is formed with a circular opening 6. The brush 7 is formed with a metal ring 8 on its heel and with an axial plug 9 to arrange the bristles in a circle with an axial opening beyond the lower end of the plug. The brush may be removably secured with the ring 8 within the opening 6 in the bracket by means of the set screw 11.

A discharge tube 12 depending from the bracket 5 leads from the interior of the chamber 3 and discharges within the hollow center of the brush as shown in Fig. 1.

A plunger 13 slidable within the chamber 3 is pivotally connected to a thumb lever 14 which is fulcrumed on cap 2 and actuated automatically by means of the spring 15 for moving and maintaining the plunger under yielding pressure for closing the discharge opening 4.

A cap 16 removably secured on the rear end of the tube or container 1 is provided with a small air compressor 17 which may be constructed in the usual manner with the reciprocating piston 18 and inlet opening 19. The discharge nozzle 21 of said pump is provided with an ordinary check valve 22.

In operation, the removal of the rear cap permits the tube or container to be partially filled with oil and then replaced as shown in Fig. 1. The distributer may be held in an inclined position with the face of the brush in contact with a moving or a stationary belt and manipulated by hand as desired. The thumb lever serves to move the plunger to open the discharge opening at intervals that the oil may flow by gravity therethrough and through the feeding tube to the interior of the brush to be properly distributed thereby over the belt surface. As the consistency of the liquid oil may vary with different temperatures the air pump serves to compress the air within the container above the oil for forcing it to the brush with more or less pressure as becomes necessary. The air pressure also prevents the usual vacuum being formed within the tube which would prevent the flow of the oil by gravity to the brush. The brush may be removed from the bracket and replaced by another when desired.

The device is very convenient and efficient in machine shops for keeping the leather belts in proper condition, and may be used in places otherwise inaccessible. It also economizes the use of oil and has the merit of cleanliness.

It is evident that the device may be used for other liquids—as for paint—and adapted to many other suitable purposes not mentioned.

Having fully described my improvements, what I claim as my invention and desire to

secure by Letters Patent of the United States is:

The combination of a tubular container, a brush secured on one end thereof at an angle to its length, valve controlled tubular connections therefrom with the container, a cap removably secured on the other end of the container, and an air compressor secured to the cap for regulating the air pressure within the container in discharging the contents thereof to the brush.

FRANK J. BRINK.

Witnesses:
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