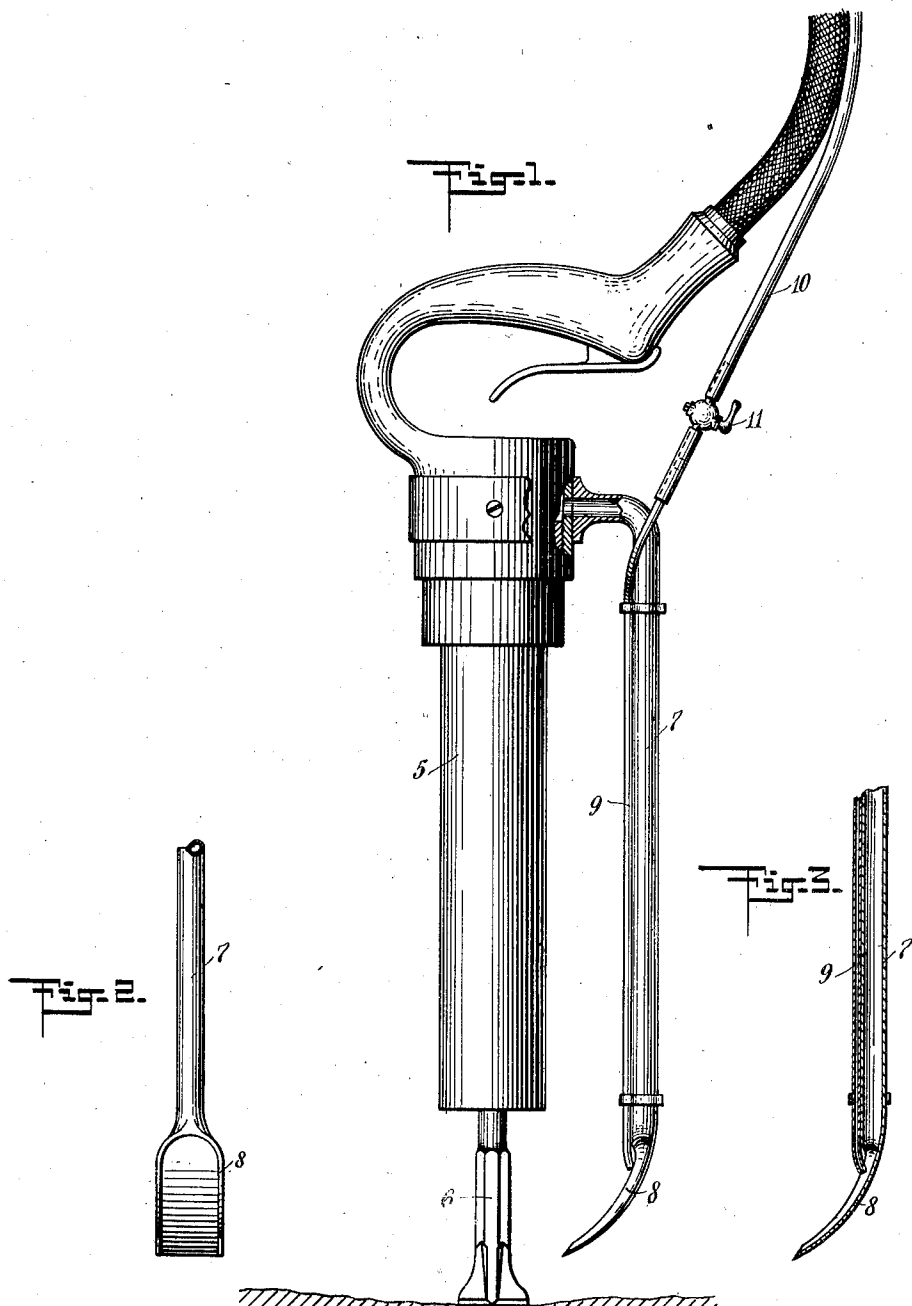


W. M. HOLDEN & E. M. TOBIN.
DUST PREVENTER FOR STONEMASONRY TOOLS.
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1,003,260.

Patented Sept. 12, 1911.



WITNESSES:
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per. 5605

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UNITED STATES PATENT OFFICE.

WILLIAM M. HOLDEN AND EDWARD M. TOBIN, OF BARRE, VERMONT.

DUST-PREVENTER FOR STONEWORKING-TOOLS.

1,003,260.

Specification of Letters Patent.

Patented Sept. 12, 1911.

Application filed February 19, 1910. Serial No. 544,927.

To all whom it may concern:

Be it known that we, WILLIAM M. HOLDEN and EDWARD M. TOBIN, citizens of the United States, and residents of Barre, in the county of Washington and State of Vermont, have invented a new and Improved Dust-Preventer for Stoneworking-Tools, of which the following is a full, clear, and exact description.

10 In dressing stone with pneumatic hammers a fine dust is formed which rises and causes the operator annoyance, the dust interfering with the examination of the progress of the work and with respiration and
15 resulting in injury to the health.

To avoid these objections, the present invention is devised, and consists of a fluid discharge pipe having an extended atomizing outlet, and a liquid supply member
20 arranged to discharge on the said outlet, the fluid discharge pipe ordinarily leading from the exhaust of the tube, with the extended atomizing outlet of spoon form.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a side elevation, partly
30 in section, of an ordinary pneumatic hammer having our improvements applied thereto; Fig. 2 is an inner face view of the air conduit of the atomizer; and Fig. 3 is a central vertical section of the atomizer.

35 For the purpose of making the nature and application of our improvements clear, we have shown a conventional form of pneumatic hammer 5 having a bit or drill 6 for stone working. In applying our improvements we connect or extend the exhaust chamber of the hammer by a pipe or conduit 7, the same depending at one side of the hammer to a point opposite the drill or

bit, where it merges into a downwardly and inwardly-inclined spoon-shaped outlet 8. 45 To the spoon-shaped outlet of the conduit is led a water or other liquid supply pipe 9, the discharge end of the pipe terminating in the exhaust outlet, preferably adjacent to the upper end or shank of the spoon, the
50 pipe 9 being fed through a hose or other suitable connection 10, and at a convenient point is provided with a valve 11 for regulating the liquid supply. At each exhaust of the tool, with this attachment, the liquid
55 passing from the liquid supply pipe is broken into a fine spray and delivered about the bit or drill, moistening the cuttings and in this way preventing the dust from rising, the shape of the exhaust outlet not only de-
60 flecting the air to the required point around the bit but insuring the complete dissemination of the liquid.

Having thus described our invention, we claim as new and desire to secure by Let- 65 ters Patent:

1. In combination, a pneumatic tool, an exhaust conduit leading from the tool, having a spoon-shaped outlet, and a liquid supply conduit discharging over and upon the
70 said outlet.

2. In combination, a pneumatic tool, an exhaust conduit leading from the tool, having an outlet at the lower end of the tool open at the upper side, curving down-
75 wardly and inwardly, and a liquid supply conduit discharging over and upon the outlet.

In testimony whereof we have signed our names to this specification in the presence 80 of two subscribing witnesses.

WILLIAM M. HOLDEN.

EDWARD M. TOBIN.

Witnesses:

J. WARD CARVER,

HUGH H. CARPENTER.