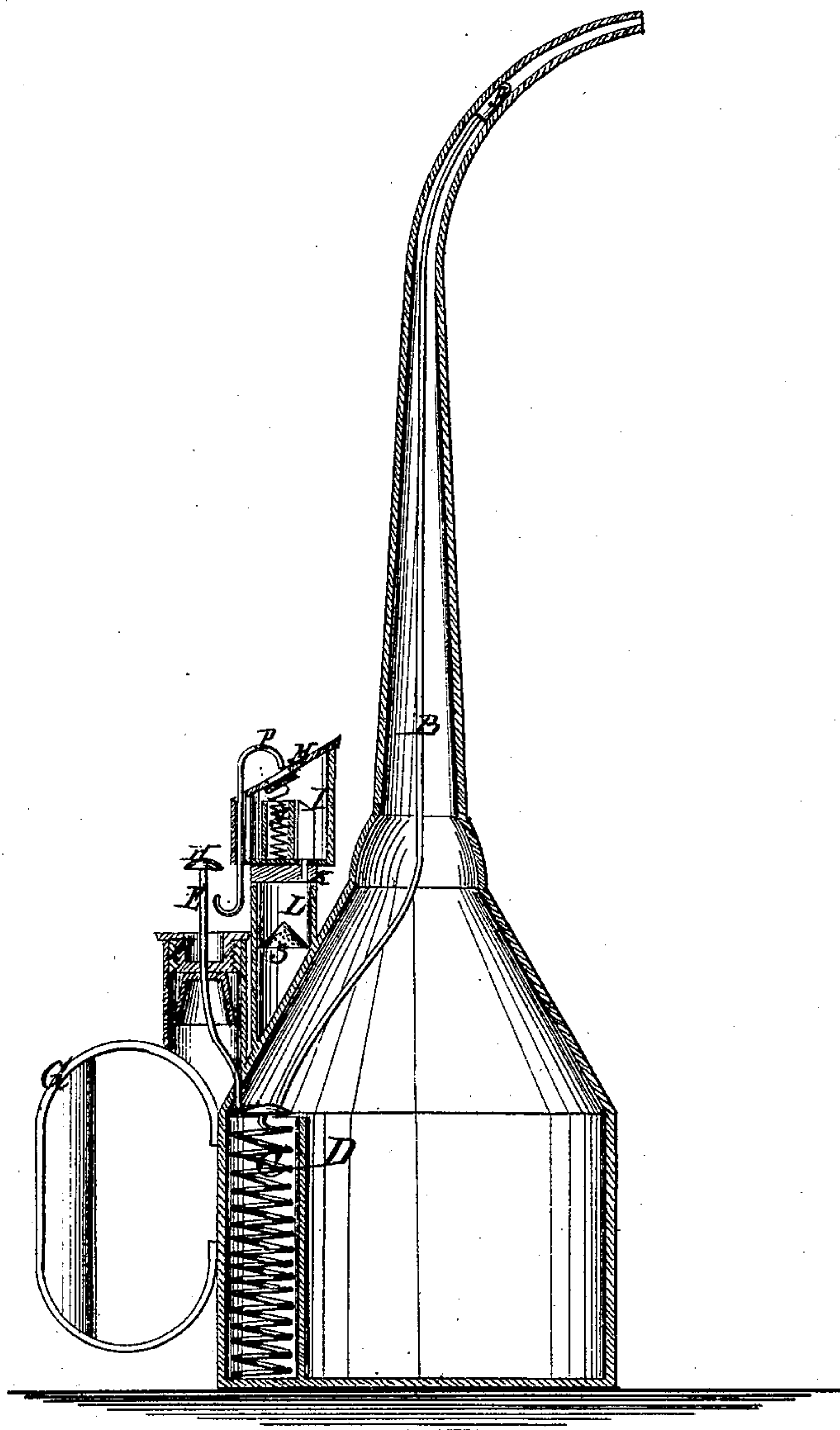


H.C. Warfel,

Oil Can.

No. 109,693.

Patented Nov. 29, 1870.



Witnesses:

C. Raettig
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UNITED STATES PATENT OFFICE.

HENRY C. WARFEL, OF PHILIPSBURG, PENNSYLVANIA.

IMPROVEMENT IN OIL-CANS.

Specification forming part of Letters Patent No. **109,693**, dated November 29, 1870.

To all whom it may concern:

Be it known that I, HENRY C. WARFEL, of Philipsburg, in the county of Centre and State of Pennsylvania, have invented a new and useful Improvement in Oil-Cans; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification.

This invention relates to improvements in oil-cans of that class used for oiling machinery; and it consists in the application to the spout of a plug and a spring arranged inside of the can for closing the passage when the spring (which is forced down by the thumb) is let go.

It also consists in the combination, with the apparatus for working the plug, of an air-valve kept closed by a spring, and a device for opening it by the operating device for the plug, so that air will be admitted at the time the plug is opened to facilitate the discharge of the oil.

The drawing represents a sectional elevation of an oil-can provided with my improvement.

A represents the plug or valve, of leather, cork, or other suitable substance, fitted to the interior shape of the spout near the discharging end, (and in the case of a curved spout in the curved part,) to be worked from below in stopping and opening the passage. It is mounted on the end of a long wire support, B, running down into the base of the can, where it is connected to the top of a vertical coiled spring, C, arranged in a case, D, near the part where the handle is attached. The spring is so arranged that it forces the plug up into the spout.

E is a wire attached to the top of the spring and rising up through the side of the can, and a stuffing-box, F, above the handle G, and carrying a thumb-bit, H, on the top for the application of the thumb of the hand, by

which the can is held to force the spring down for withdrawing the plug A when it is required to open the passage for the oil to flow. In connection with this plug and the operating devices therefor I apply an air cup or chamber, I, to the cap K of the filling-tube L, and provide it with a valve, M, for admitting the air at the time the plug A is forced down to open the passage. This valve is kept closed by a spring, N, and to open it I have provided the pot-hook-shaped wire P in a vertical guide, Q, with one end so arranged that when the wire E is forced down the thumb-bit H will engage it and draw the hook down, so that the other end will strike the valve M and force it open, thereby admitting the air, which is admitted through a small hole in the cap to the can. Below this cap I place a conical or other formed sieve, S, made of perforated sheet metal, wire, gauze, or other substance, to separate the particles of solid matter which may be in the oil, and which would clog the passage at the plug A. The plug A is used to prevent the escape of too much oil, by which with the cans as at present constructed great waste is incurred.

The wire B may be provided with suitable guides arranged along the interior of the spout to prevent it from springing, and it may have stops or guards of any kind to prevent pushing the plug in too tight.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination, with an oil-can, of the plug A, spring C, and operating wire pusher E, all arranged substantially as specified.

2. The pusher E of the plug-operating devices, arranged for actuating the air-valve M by means of hook P simultaneously with plug A by means of spring C, all substantially as described.

HENRY C. WARFEL.

Witnesses:

GEO. H. ZIEGLER,
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