

E. T. Covell,

Can Nozzle.

No. 104430.

Patented June 21, 1870.

Fig: 1.

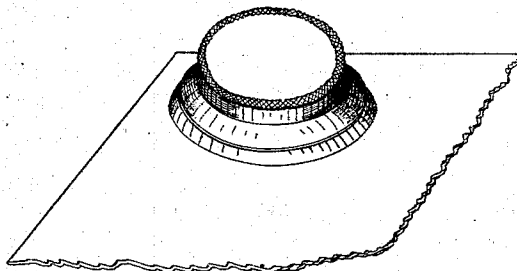
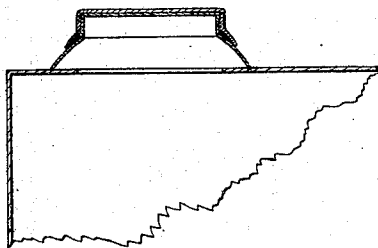


Fig: 2.



Witness

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EDWARD T. COVELL, OF BROOKLYN, NEW YORK.

Letters Patent No. 104,430, dated June 21, 1870.

IMPROVEMENT IN NOZZLE AND CAP FOR OIL-CANS.

The Schedule referred to in these Letters Patent and making part of the same

I, EDWARD T. COVELL, of Brooklyn, in the county of Kings and State of New York, have invented a new and improved Nozzle and Cap for Oil-Cans and other vessels, of which the following is a specification.

My invention relates to the manufacture of nozzles and screw-caps, to be applied to oil-cans and other vessels, by stamping up sheet-iron, either plain, tinned, or galvanized, into the proper form therefor, and of such thickness as will admit of the subsequent formation of a screw-thread thereon.

Heretofore the nozzles and caps sold and used in the trade have been made either of comparatively soft metal, or else of very thin metal, by spinning them up in a lathe, the necessary screw-threads being spun over a threaded chuck, swaged, or otherwise stamped thereon or therein.

Such nozzles and caps are, in the first place, comparatively expensive, because of the very costly process required in their manufacture, as well as from the quality and description of the material required in such process. In the second place they are easily injured, and soon rendered useless.

The object of my invention is to produce, by a new process of manufacture, as applied to such articles, nozzles and caps, which may not only be sold much cheaper than any heretofore used, from the ease with which they may be produced, and the comparative cheapness of the material which may be employed in the process, but which shall also be far more useful because of their greater stiffness, strength, and durability, and because of the greater facility with which they may be secured upon metallic vessels.

Figure 1 is an elevation in perspective, and

Figure 2, a central vertical section of my improved nozzle and cap.

I manufacture these nozzles and caps by placing strips of sheet-iron (by preference tinned, but which may be used plain or galvanized,) between suitable dies in a powerful press, and then stamping them up

at one movement of the machine, each into the proper form required for use.

Where the strips of metal are cut of an exact width there is but very little loss or waste, and as the operation is very quickly performed, I am enabled by this process to produce with the same labor thousands where hundreds only can be made by the processes heretofore employed.

A concentric score or indentation should be stamped in the upper surface of the closed top of each nozzle, near the periphery thereof, to facilitate its opening for the purpose of emptying the vessel.

The opening is effected by running a sharp knife or other instrument, along the score, which, from the thinness of metal therein, will yield and separate very readily.

The simple caps and nozzles thus struck up need only counterpart screw-threads thereon to make them complete. These threads are cut on the one and the other in the usual manner, by placing them in a lathe, or they may be stamped, swaged, or crimped up thereon, or formed separately, and subsequently added thereto, as described in my United States Letters Patent of November 16, 1869.

The complete screw-threaded sheet-iron nozzles and caps thus produced are superior to all others in use in their quality, durability, and finish, and can be furnished at far less cost.

I do not claim, broadly, forming a screw-cap out of a solid piece of sheet-metal, as this has been accomplished by spinning the same over a threaded chuck.

I claim as my invention—

The within-described closed-top nozzles and screw-caps for oil-cans and other vessels, formed substantially as herein set forth, as a new article of manufacture.

E. T. COVELL.

Witnesses:

GEO. W. RATHBUN,
S. C. WILSON.