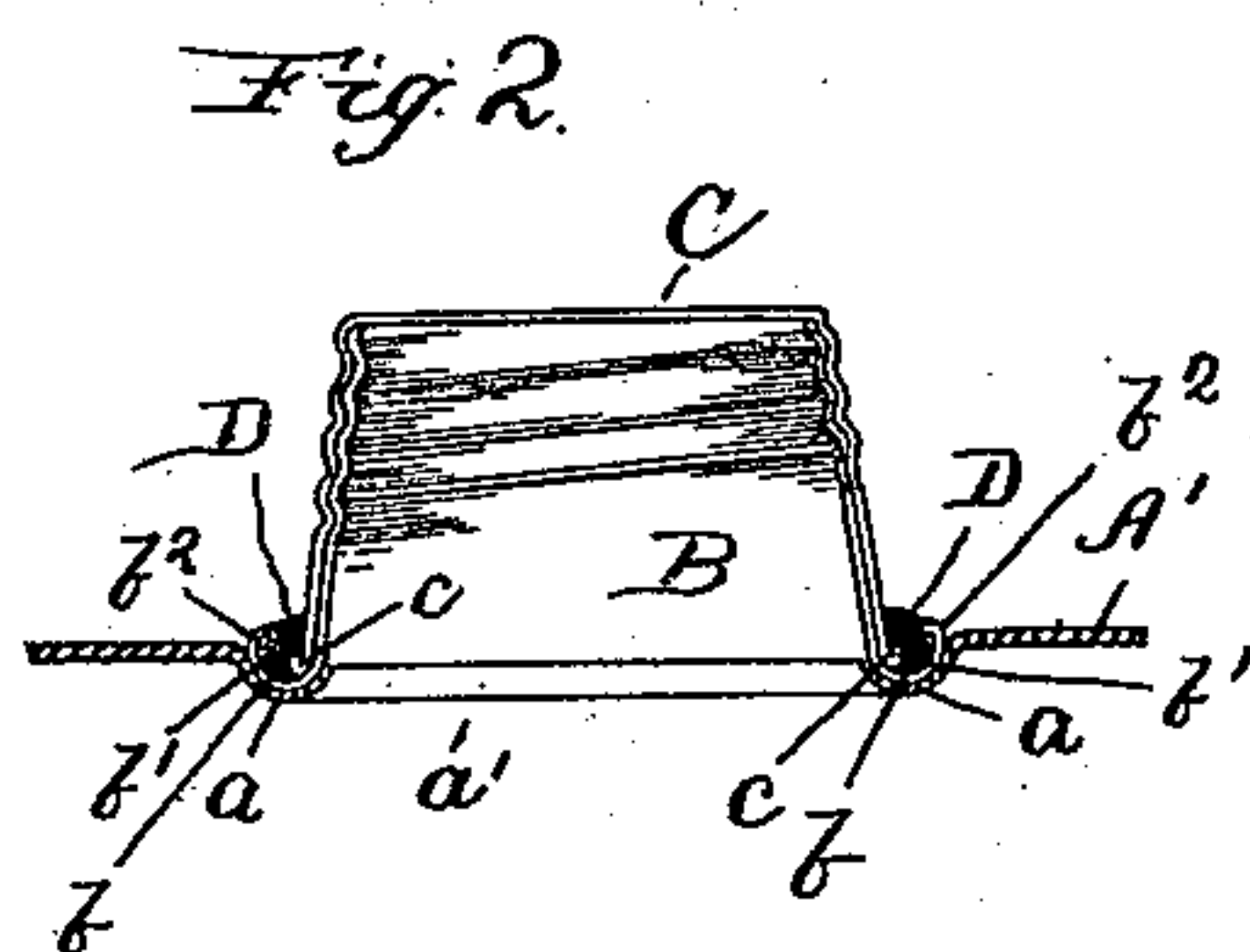
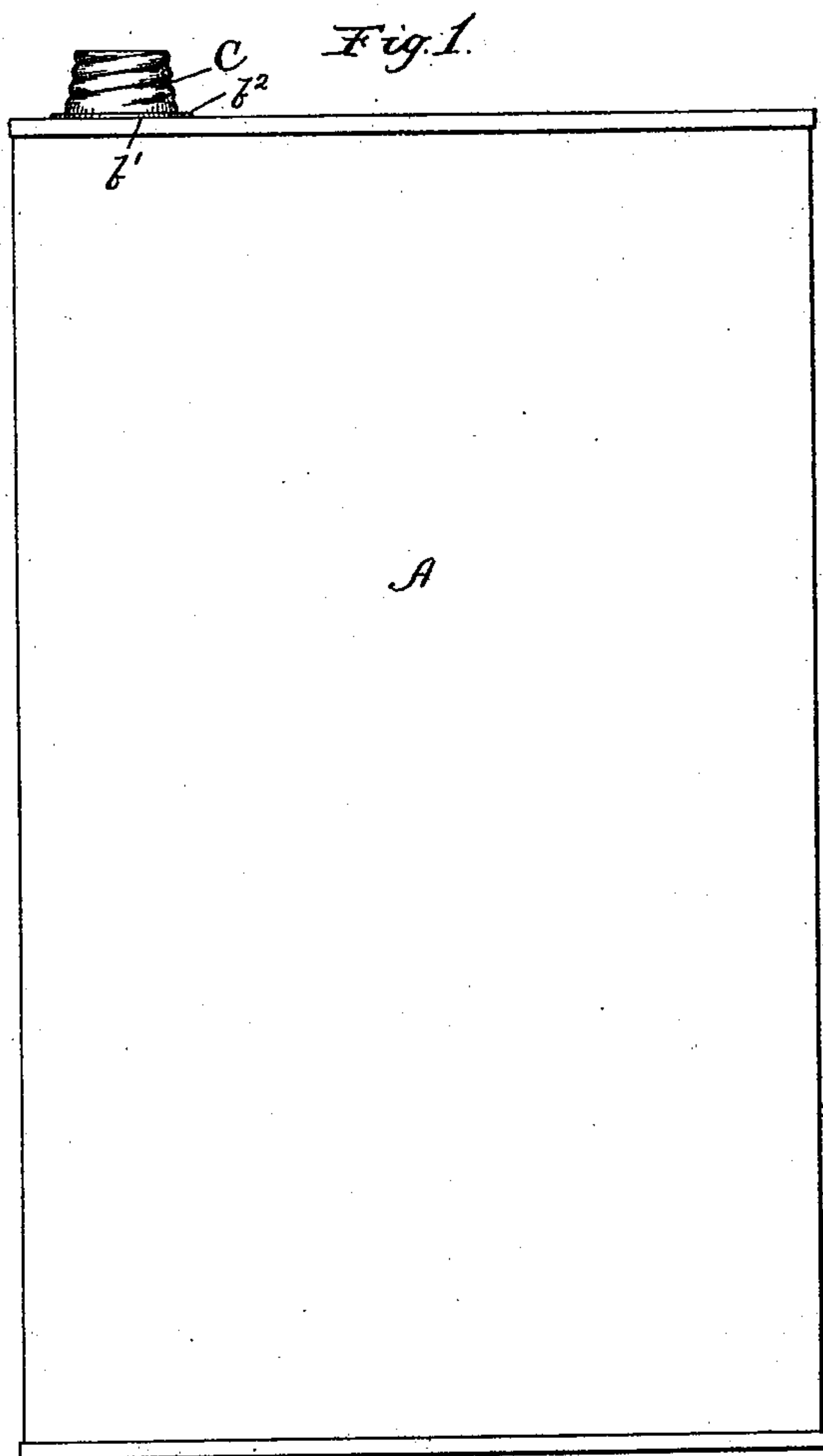


(No Model.)

L. A. NORTON.
SCREW NOZZLE FOR CANS.

No. 486,293.

Patented Nov. 15, 1892.



Witnesses:
Lew. E. Curtis
A. W. Munday.

Inventor:
Lawrence A. Norton
By Munday, Curtis & Adcock,
his Attorneys.

UNITED STATES PATENT OFFICE.

LAWRENCE A. NORTON, OF CHICAGO, ILLINOIS.

SCREW-NOZZLE FOR CANS.

SPECIFICATION forming part of Letters Patent No. 486,293, dated November 15, 1892.

Application filed September 17, 1891. Serial No. 405,965. (No model.)

To all whom it may concern:

Be it known that I, LAWRENCE A. NORTON, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Screw-Nozzles for Cans, of which the following is a specification.

My invention relates to cans furnished with screw-nozzles and caps for closing the same.

The ordinary screw-cap nozzle does not make an air-tight closure. In sirup and many other nozzle-cans it is, however, desirable that the can should be capable of being sealed air-tight. Heretofore screw-cap nozzles have sometimes been furnished with supplemental corks or stoppers to increase the tightness of the closure and sometimes with gaskets; but neither of these devices affords a perfectly-air-tight closure, and their use is attended with inconvenience and expense.

The object of my invention is to so construct the screw-cap-nozzle can that it may be hermetically sealed cheaply and conveniently and at the same time readily opened by simply unscrewing the cap.

To this end my invention consists, in connection with a can furnished with a screw-nozzle and screw-cap, of an annular recess or channel at the base of the nozzle, into which the lower rim of the cap projects and which is filled with sealing-wax, thus forming a hermetical seal to the nozzle. The annular recess for the sealing-wax or other sealing material is preferably formed integral with the screw-nozzle by turning up its lower rim.

The invention further consists in the novel devices and novel combination of parts and devices herein shown and described, and more particularly pointed out in the claims.

In the accompanying drawings, which form a part of this specification, and in which similar letters of reference indicate like parts, Figure 1 is a side elevation of a can embodying my invention, and Fig. 2 is an enlarged vertical sectional view of the screw-cap nozzle.

In the drawings, A represents a sirup or other sheet-metal can. B is the screw-nozzle, and C the screw-threaded cap which closes the nozzle. The head A' of the can is furnished with the usual cap groove or channel α , sur-

rounding the opening a' in the head of the can, and in which cap-groove the lower rim or base of the nozzle fits and is securely soldered in place. At the base of the screw-nozzle B is an annular recess or channel b , into which the lower head or rim c of the screw-cap C projects, so that when the annular recess b is filled with wax or other sealing material D the same will form a hermetical seal between the nozzle and cap. The receptacle or annular channel b for the sealing material is most conveniently formed by turning or rolling up the lower edge or rim b' of the nozzle B, substantially as shown in the drawings. To give the sealing receptacle or channel b a kind of dovetail shape in cross-section, so that the sealing material may be better protected and more securely fixed in place, I form a roll b^2 at the extreme edge of the upturned outer rim b' , as is clearly indicated in Fig. 2 of the drawings. The roll or upturned edge b^2 also gives a smooth finish and prevents danger of injury to the fingers from the raw edge in unscrewing the cap. The screw-cap C is also furnished with a turned edge or projecting rim c at its rim or base. By this means the screw-cap-nozzle can may be securely and hermetically sealed, and all that is required to open the can is simply to break away or remove the sealing-wax D and unscrew the cap. After the can has once been opened it may again be temporarily hermetically sealed while the contents of the can are being used by simply refilling the sealing-receptacle b' with semi-liquid or other suitable sealing material.

I claim—

1. The combination, with a sheet-metal can A, having a head A', furnished with a cap-groove α , of a sheet-metal nozzle B, provided with screw-threads stamped or pressed thereon and having its lower edge or rim b' rolled or turned up outwardly to form an annular channel b , said turned-up rim or edge fitting in the cap-groove α and being soldered to the head A', and an imperforate sheet-metal screw-cap C, fitting over the nozzle and having its lower edge or rim projecting into said annular channel b , said annular channel being filled with a sealing material or wax,

whereby said can may be hermetically sealed, substantially as specified.

2. The combination, with a sheet-metal screw-nozzle B, provided with corrugated screw-threads and having an upturned rim *b'* at its base, forming an annular channel or receptacle for the sealing material, of an imperforate sheet-metal screw-cap fitting over

said nozzle and having a rolled edge or rim *c*, projecting into said annular receptacle or channel for the purpose of hermetically sealing the nozzle, substantially as specified.

LAWRENCE A. NORTON.

Witnesses:

H. M. MUNDAY,
EMMA HACK.