

J. S. FIELD.
Sheet-Metal Can.

No. 206,429.

Patented July 30, 1878.

Fig. 2.

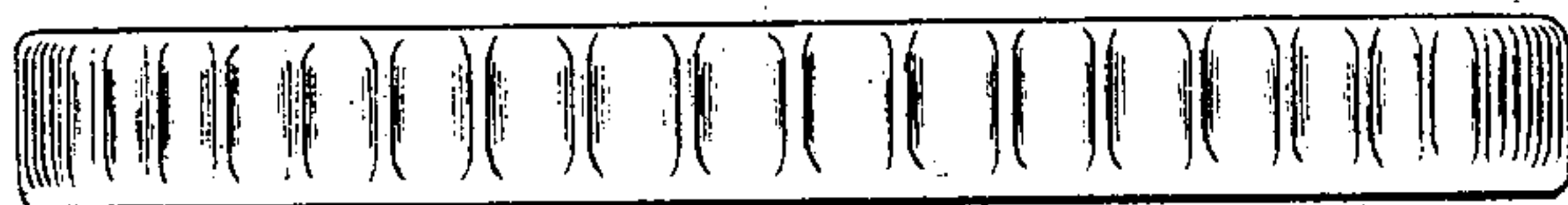
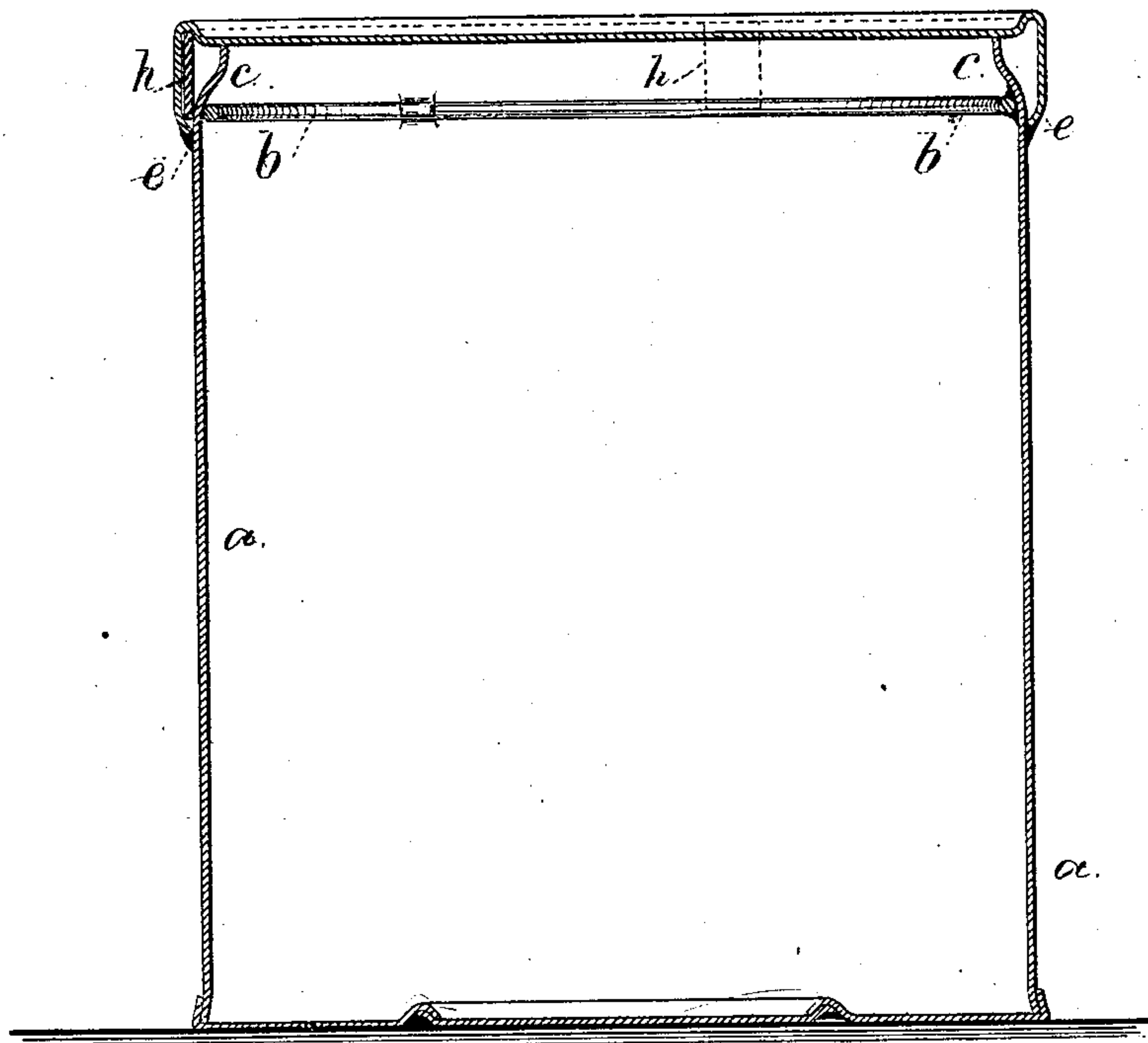


Fig. 1.



Witnesses.

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att'y.

UNITED STATES PATENT OFFICE.

JOSEPH S. FIELD, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN SHEET-METAL CANS.

Specification forming part of Letters Patent No. **206,429**, dated July 30, 1878; application filed June 28, 1878.

To all whom it may concern:

Be it known that I, JOSEPH S. FIELD, of Brooklyn, in the State of New York, have invented an Improvement in Sheet-Metal Cans, of which the following is a specification:

Sheet-metal cans have been made with covers soldered onto the body, and with the cover resting upon the end of the can, the parts being constructed in such a manner that the solder is broken by driving the cover farther down upon the can. Devices of this kind may be seen in Letters Patent No. 187,260, and a strip of metal has been introduced between the rim of the cover and the body of the can for the purpose of breaking the line of solder when the cover is driven down.

In cans containing a soldered joint it is important that the body of the can be as stiff as possible, so that it will not bend inwardly or outwardly by the end pressure upon the cover, and the edge of the can itself that bears against the under side of the cover should not be conical; otherwise the pressure or concussion upon the cover in opening the same will bend the said conical edge irregularly and distort the mouth of the can or the rim of the cover.

My invention is made for obviating or avoiding these difficulties.

In the drawing, Figure 1 is a vertical section of the can, and Fig. 2 is an elevation of the cover.

I strengthen the upper end of the can *a* by a wire, *b*, soldered to the inside of the can, around the same, near the place where the rim of the cover is soldered to the can. This wire aids in maintaining the cylindrical shape of the can, especially when made of thin sheet metal. Furthermore, the upper end or mouth of the can is contracted as an ogee or compound curve, as seen at *c*, the extreme upper end of the can being nearly cylindrical, and the metal curving downward and outward as a cove, and then rounding outward, forming a cyma reversa. This shape allows for the cover being driven down to break the soldered joint at *c*, and at the same time the circular character of the mouth is not changed.

In order to be able to employ thin metal for

the cover, and to obtain the requisite stiffness for breaking the soldered joint by the pressure upon the cover, I form the rim with corrugations, running up and down, or in such a manner as to obtain the required stiffness in the metal; and instead of inserting a complete ring of sheet metal to aid in breaking the soldered joint, as in aforesaid patent, I make use of small sections *h h*, of hard metal, introduced between the rim of the cover and the can, so as to aid in starting the rupture of the solder for I find the same gives way under pressure, especially when a rupture of the solder has been effected at one place.

The cover is not flat upon the top; but it is raised as a bead around the edge and outside of the central portion, which is flat, or nearly so, and the flat portion of the cover rests upon the upper end of the cylindrical mouth. Hence, when pressure is applied in opening the cover, the mouth is not distorted, but the rim of the cover driven down.

I claim as my invention—

1. The combination, with a can having a soldered removable cover, of a supporting-wire around the can near the place where the solder of the cover is applied, substantially as set forth.

2. The can-cover made with a rim that is stiffened by corrugations and soldered to the can, substantially as set forth.

3. The sheet-metal can formed with a contracted cylindrical mouth and a compound curve in the metal between the mouth and body, in combination with the cover that rests upon the cylindrical mouth and has a bead around the top, and is soldered at the edge of the rim to the can, substantially as set forth.

4. The combination, with the can and removable cover soldered to place, of one or more short sections of hard metal, *h*, introduced between the rim of the cover and the can, substantially as set forth.

Signed by me this 26th day of June, A. D. 1878.

JOSEPH S. FIELD.

Witnesses:

GEO. T. PINCKNEY,
CHAS. H. SMITH.