

F. RUDOLPH.
JACKET CAN.
APPLICATION FILED MAR. 9, 1907.

925,135.

Patented June 15, 1909.

Fig. 1

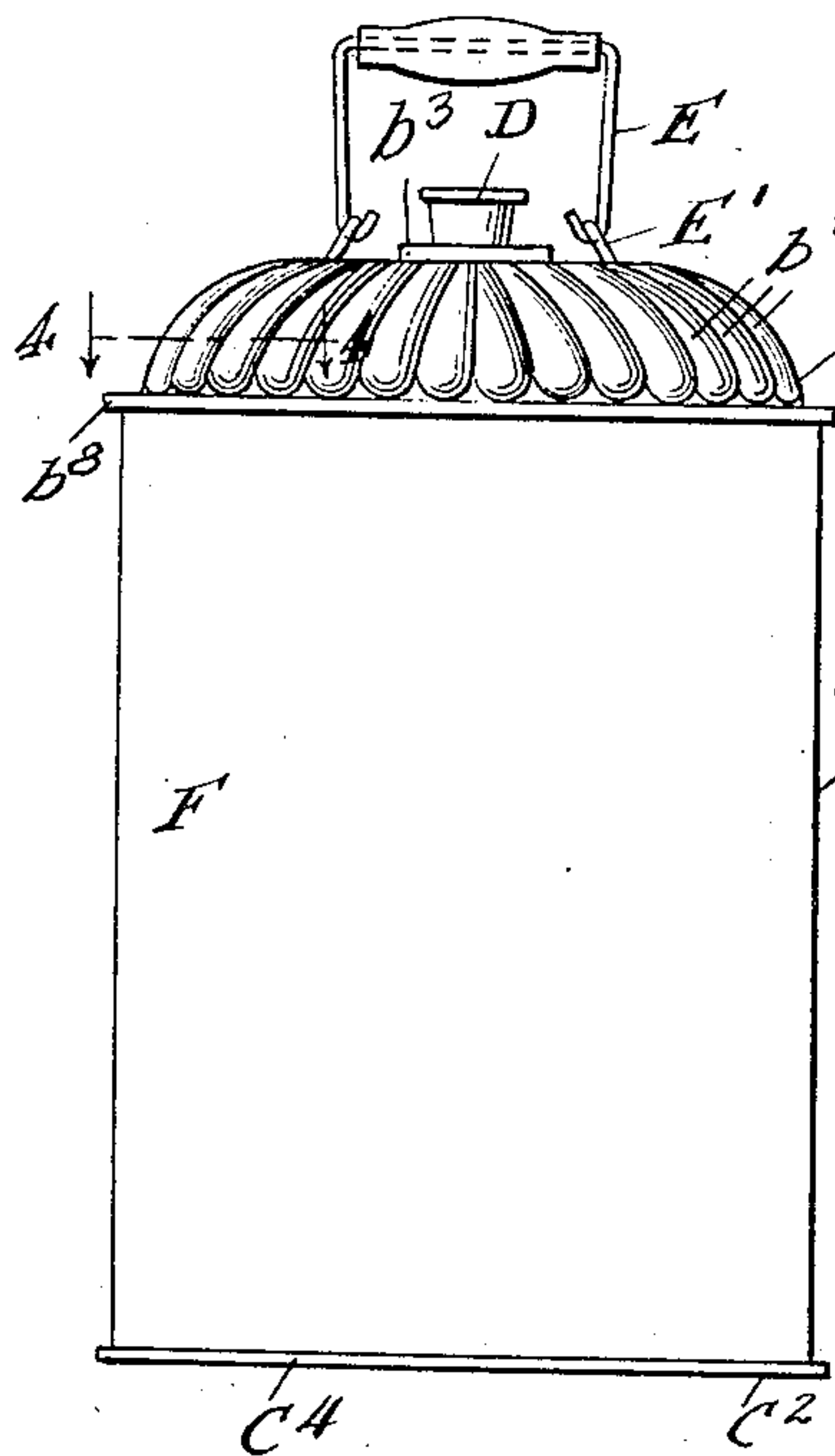


Fig. 2

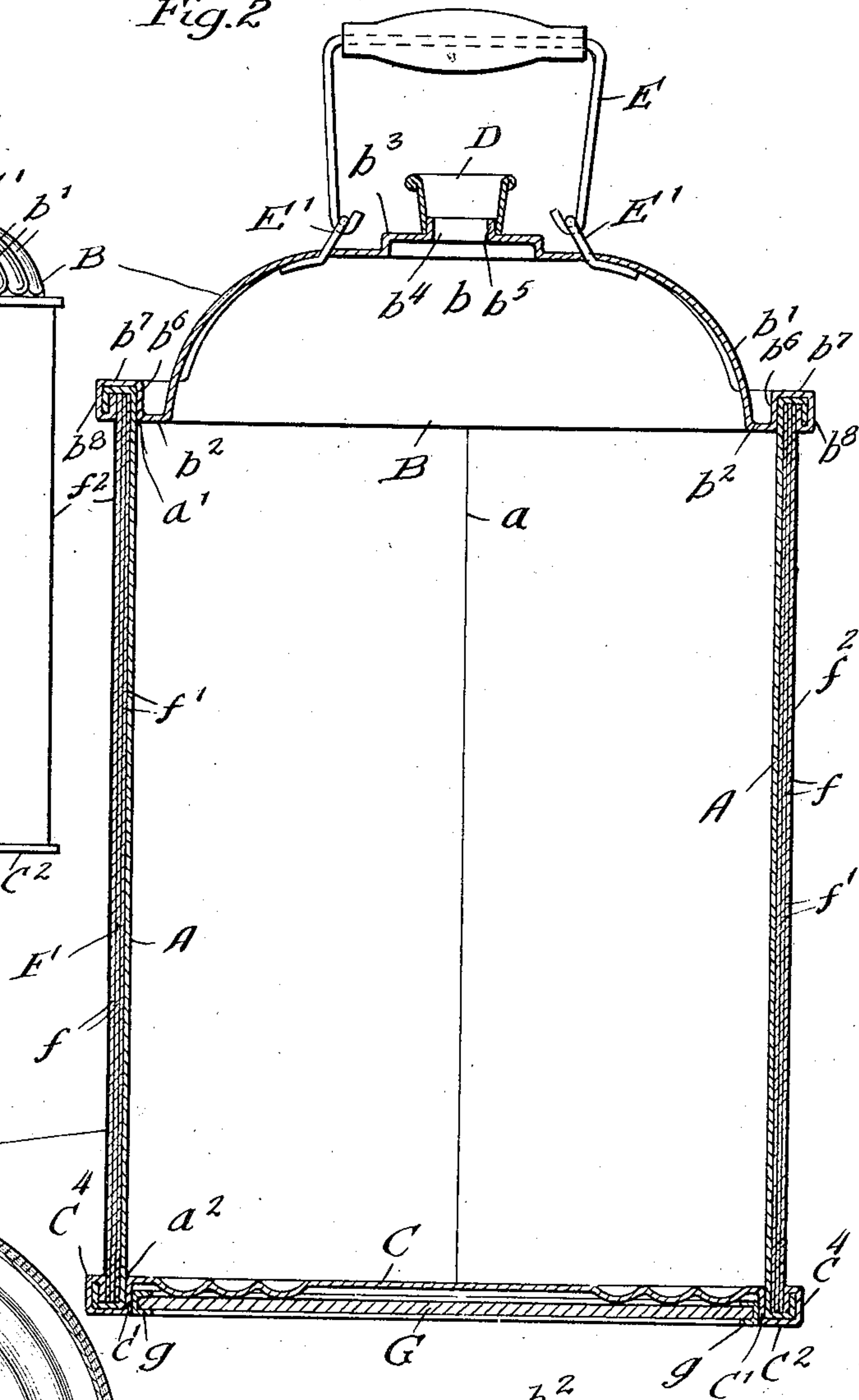


Fig. 3

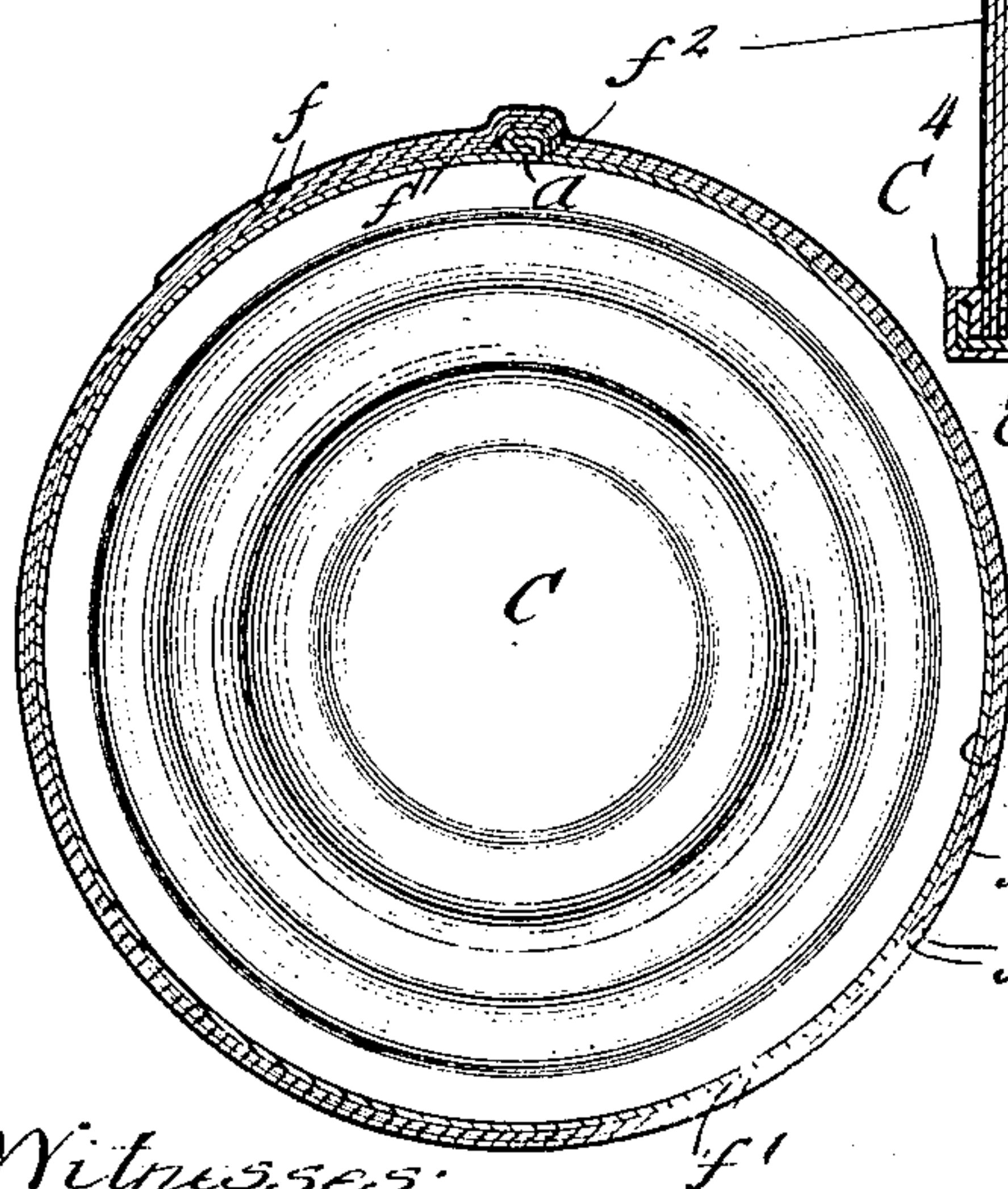
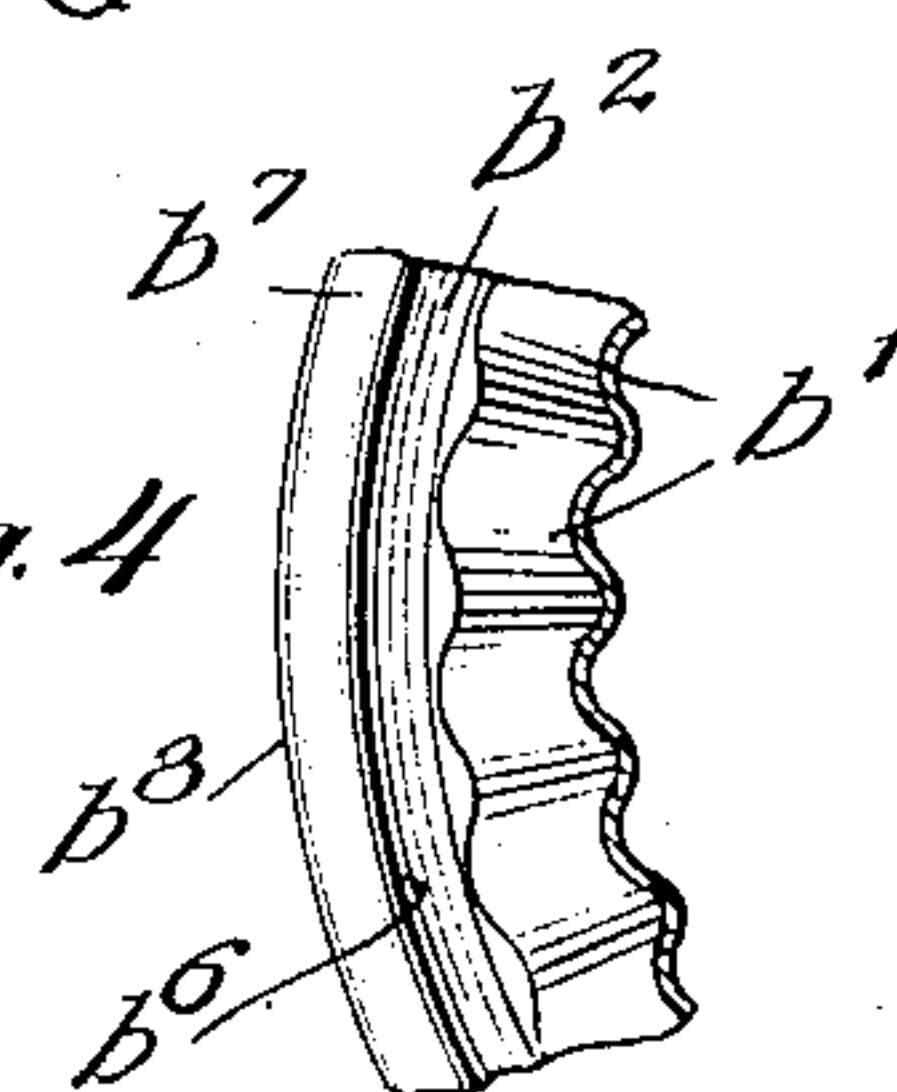


Fig. 4



Witnesses:

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UNITED STATES PATENT OFFICE.

FRANKLIN RUDOLPH, OF WINNETKA, ILLINOIS, ASSIGNOR TO AMERICAN CAN COMPANY,
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JACKET-CAN.

No. 925,135.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, FRANKLIN RUDOLPH, a citizen of the United States, residing in Winnetka, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Jacket-Cans, of which the following is a specification.

My invention relates to jacketed cans for shipping and handling oil and other articles.

Heretofore protecting jackets for the bodies of sheet metal cans have usually been made of wood veneer, or else of sheet iron, a single thickness of the wood veneer or sheet iron surrounding the can body and affording some protection thereto against blows, although affording little direct support or reinforcement to the thin sheet metal or tin plate body of the can for lack of any adhesion or close supporting contact between the tin plate body of the can and its surrounding jacket.

The object of my invention is to provide a jacketed can of a strong, simple, efficient and durable construction, capable of being rapidly and cheaply manufactured, and in which the surrounding jacket and can body will act in a measure as one unitary structure, and in which the jacket and can body will have a close adhering and binding and supporting contact with each other throughout, so that no part of the can body or jacket can slip or give in any direction in respect to the other, thereby producing a structure as a whole of great strength and stiffness and durability for the weight and cost of materials employed.

My invention consists in the means I employ to accomplish this object or result, as herein shown and described; that is to say it consists, in connection with the can body and its top and bottom heads soldered or secured thereto and provided with marginal rims or flanges, of a continuous spirally wound jacket of paper or other fibrous material wrapped around the body of the can in a series or plurality of successive layers, the inner layer having a close and adhesive binding and supporting contact with the can body, and the successive layers having a similar adhesive and binding contact with each other, so that all the layers of the paper

or fibrous jacket adhere together and mutually support and bind each other and the enclosed can body, the upper and lower edges of this tensile or bandage-acting jacket being confined and protected by the marginal flanges or rims of the upper and lower heads of the can which are folded over the ends of the jacket to securely unite the same to the body.

My invention further consists in the novel construction of parts and devices and in the novel combinations of parts and devices herein shown and described.

In the accompanying drawing, forming a part of this specification, Figure 1 is a side elevation of a jacketed can embodying my invention. Fig. 2 is a central vertical section. Fig. 3 is a cross section and Fig. 4 is a detail section on line 4—4 of Fig. 1.

In the drawing A represents the sheet metal cylindric body of the can, B its upper or top head, C its lower or bottom head, D the pouring nozzle, E the handle or bail, E¹ the bail ears, F the protecting jacket consisting of successive layers of paper or other fibrous material wound continuously and spirally around the can body, the inner layer being glued or cemented to the outer surface of the can body, and the outer layers being glued or cemented together; and G is a supplemental bottom of wood veneer, surrounded by a metal rim g.

The sheet metal body A has the customary soldered side seam a, and it is united by soldered joints or seams a¹ a² with the top and bottom heads B, C, of the can.

The upper or top head B preferably has a dome-shaped center portion b, provided with a series of radially extending tapering and convexly curved flutes b¹, extending from the countersunk annular base b² to the raised central boss b³ thereof. The raised central boss b³ is furnished with a pouring opening b⁴ surrounded by an upturned flange b⁵ to which the pouring nozzle D is soldered or secured. The dome-shaped radially fluted top B is also provided with an annular cylindric flange or shoulder b⁶, which fits within the upper end of the can body A and to which said body is soldered, and it is also provided with an outwardly projecting flange or rim b⁷.

The bottom head C is furnished with an annular cylindric flange or shoulder C¹ which fits within the lower end of the can body A, and to which this lower end is securely soldered. The bottom head C is also furnished with a horizontally projecting marginal flange or rim C². The paper or fibrous jacket F consists of a continuous strip of paper wound or wrapped spirally around the can body in successive layers *f*, the inner layer having an adhesive coating *f*¹ cementing it to the can body, and the successive layers having similar adhesive coatings *f*¹ cementing the successive layers together, and the outer layer being also preferably furnished with a water-proof or moisture proof coating *f*² of shellac or other water-proof substance or composition. The successive layers *f* of the jacket F are wrapped or wound tightly around the can body so that the can body and the successive layers of the jacket cemented to each other act, in a measure, as one solid or unitary structure, the inner layers of the jacket being in close, adhesive and binding contact with the can body and the successive layers being in close, adhesive and binding contact with each other, so that the spirally wrapped continuous jacket has a binding and bandage-like action upon the can body, as well as a reinforcing and supporting action. The number of layers or thicknesses of which the spirally wound paper or fibrous material jacket is composed may be increased or diminished as desired or required, and each layer may be made of paper or fibrous material of any desired thickness, according to the size of the jacketed can and use to which it is to be put. After the continuous spirally wound paper or fibrous material has been wrapped around the can body between the marginal outwardly projecting rims or flanges *b*⁷ C², these rims or flanges are folded or seamed over the ends of the jacket by forming the folds or flanges *b*⁸ and C⁴, thus securely uniting the ends of the jacket to the can heads and covering and protecting the ends of the jacket by the folded rims of the upper and lower can heads B, C.

I claim:

1. In a jacketed can, the combination with the can body and can heads, of a fibrous jacket wrapped in successive layers around the can body, the inner layer cemented to the can body and the successive layers cemented to each other, the can heads having folded rims embracing the ends of the jacket, and a supplemental bottom having a metal rim contacting with and soldered to the bottom head, said fibrous jacket having a bandage-like gripping action on the can body and the body and jacket being irremovably united throughout their contacting surfaces and forming a composite unitary structure, substantially as specified.

2. In a jacketed can, the combination with a sheet metal can body and can heads, of a paper jacket wrapped in successive layers around the can body, the inner layer cemented to the can body and the successive layers cemented to each other, the can heads and can body having interfolded rims uniting the same together and surrounding, embracing and compressing the ends of the jacket, said paper jacket having a bandage-like gripping action on the can body, and the body and jacket being irremovably united throughout their contacting surfaces and forming a composite unitary structure and said can heads being also rigidly connected to the paper jacket as well as to the can body, substantially as specified.

3. In a jacketed can, the combination with a sheet metal can body and can heads, of a paper jacket wrapped in successive layers around the can body, the inner layer cemented to the can body and the successive layers cemented to each other, the can heads and can body having interfolded rims uniting the same together and surrounding, embracing and compressing the ends of the jacket, said paper jacket having a bandage-like gripping action on the can body, and the body and jacket being irremovably united throughout their contacting surfaces and forming a composite unitary structure, and said can heads being also rigidly connected to the paper jacket as well as to the can body, and a supplemental bottom having a metal rim contacting with and soldered to the bottom head of the can body, said metal rim having annular flanges embracing said supplemental bottom, substantially as specified.

4. In a jacketed can, the combination with a sheet metal can body and can heads, of a paper jacket wrapped in successive layers around the can body, the inner layer cemented to the can body and the successive layers cemented to each other, said paper jacket having a bandage-like gripping action on the can body and the body and jacket being irremovably united throughout their contacting surfaces and forming a composite unitary structure and said can heads being also rigidly connected to the paper jacket as well as to the can body, said can head and can body having rims interfolded and united by double seams and said interfolded rims of the can body and can heads embracing, surrounding and compressing both ends of the jacket, substantially as specified.

5. In a jacketed can, the combination with a sheet metal can body and can heads, of a paper jacket wrapped in successive layers around the can body, the inner layer cemented to the can body and the successive layers cemented to each other, said paper jacket having a bandage-like gripping action on the can body and the body and jacket being irremovably united throughout their contacting

surfaces and forming a composite unitary structure and said can heads being also rigidly connected to the paper jacket as well as to the can body, said can head and can body
5 having rims interfolded and united by double seams and said interfolded rims of the can body and can heads embracing, surrounding

and compressing both ends of the jacket, said paper jacket having an external waterproof coating, substantially as specified.

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Witnesses:

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