

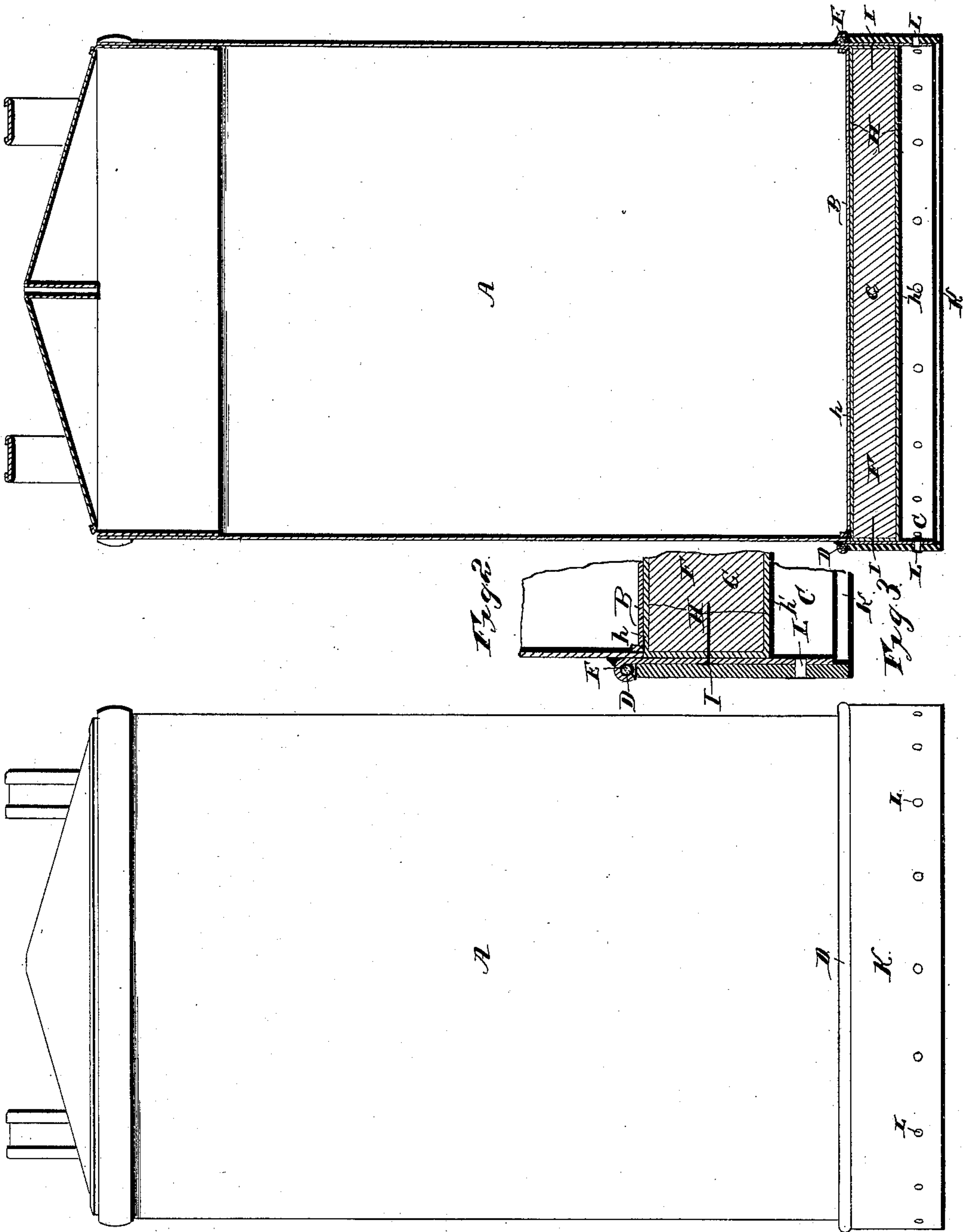
(No Model.)

F. N. GASKELL.

CAN.

No. 376,085.

Patented Jan. 10, 1888.



Witnesses  
Geo. Thayer  
C. E. Doyle.

Fig. 1.

Inventor  
Frank N. Gaskell  
by C. A. Snow & Co  
Attorneys

# UNITED STATES PATENT OFFICE.

FRANK NEWBERRY GASKELL, OF JUDA, WISCONSIN.

## CAN.

SPECIFICATION forming part of Letters Patent No. 376,085, dated January 10, 1888.

Application filed November 4, 1887. Serial No. 254,306. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK NEWBERRY GASKELL, a citizen of the United States, residing at Juda, in the county of Green and State of Wisconsin, have invented a new and useful Improvement in Cans, of which the following is a specification.

My invention relates to improvements in cans, referring especially to that class of cans which are used to transport milk.

Cans of this character are necessarily subjected to a great amount of rough usage, and hence they must be made very strong to withstand it. The cans need especially to be strengthened at the bottoms, as they are very liable to have the bottoms punctured or severely dented when they are dashed down, and thus caused to lose their contents.

It is my object to provide a can with a bottom sufficiently strengthened and protected to withstand the blows which it is unavoidably subjected to, and at the same time produce a device which will be cheaply manufactured.

With these objects in view my invention consists in a wooden protecting-disk, which is attached to the bottom of a can and is provided with a metallic casing or covering, whereby the blows which would under ordinary circumstances fall upon the bottom of the can proper will now be received by the wooden disk, and, as this is in a measure elastic, all damage to the can is avoided. Around this disk I secure a sheet-metal hoop or rim, which is attached at the upper edge rigidly to the can and projects below the protecting-disk.

My invention consists, further, in an iron or heavy metal hoop arranged around the above-mentioned rim so that the lower edge thereof will project below the lower edge of the rim, and thus bear the weight of the can and its contents. This hoop is riveted to the rim and thus firmly secured to the can, and it is obvious that, extending below the protecting-disk, it will receive the greater part of the rough usage to which the can is subjected.

My invention is more fully described and the details of construction set forth hereinafter, in connection with the accompanying drawings, wherein—

Figure 1 is a side view of the can. Fig. 2

is a vertical central section of the same. Fig. 3 is an enlarged view of same, showing one side.

Referring by letter to the drawings, wherein similar letters denote corresponding parts in all the views, A designates the body of the can, which is provided with the ordinary flat bottom, B.

It will be seen that my invention is attached to a can of the common construction and shape.

C designates a sheet-metal (preferably tin) rim, which is soldered around the lower edge of the can and projects a considerable distance below the bottom thereof. The upper edge of the rim is turned over to form the roll or rib D, and a wire ring, E, is disposed within the roll to strengthen the same. This rib extends entirely around the can, a short distance above the bottom thereof.

F designates a protecting-disk, which is disposed within the rim C, and it comprises the disk G, of wood, and the covering or casing H, of metal, (preferably of galvanized iron,) having the upper plate, *h*, to bear against the bottom of the can, and the lower plate, *h'*. The protecting-disk is secured within the rim by solder and by nails I, which are driven through the rim C, through the casing H, and into the wooden disk G. It will be seen that the rim C projects below the protecting-disk F, and thus forms a depending flange. When the protecting-disk is soldered to the said rim, it will be seen that the flange above mentioned becomes a part of the disk, and thus there is no chance for the latter to become loosened or detached from the can.

K designates an iron hoop, which is placed around the rim C so that its upper edge will bear against the lower side of the rib D. Rivets L L are passed through the rim and the hoop to rigidly secure the same together.

It will be seen that the upper edge of the hoop projects above the bottom B of the can, and hence protects the same from blows against the side of the can, and the weight of the entire can and contents is borne by the hoop, as will be readily seen. This hoop K serves to bind the parts of the bottom together, and it is so connected to the lower edge of the can and the rim C as to prevent its being detached.

I am fully aware that it is not broadly new



to employ a wooden disk to protect the bottom of the can, and I do not claim it so; but I am not aware that it is old to employ for the said purpose a wooden disk provided with a casing or covering of metal to protect the disk from the weather, and also to enable the same to be more easily and safely secured to the can.

It will be seen that if the nails which are driven through the rim C entered the wooden disk without passing through the metallic casing the wood might and in fact would be certain to become slightly decayed around the nails, and thus allow the disk to become loose; but the metallic casing is perforated by the nails which are driven through it and into the wooden disk, and hence, even should the wood become slightly decayed, the parts will still be held firmly together. Further, if the wooden disk is not provided with a metallic covering or casing, dampness will penetrate through the cracks and work its way to the disk, causing its rapid decay. In my invention it will be seen that the wooden disk is entirely cut off from the outside and therefore protected.

It will be understood that the protecting-disk may be either secured in place by nails alone or by solder alone, or by combining the two methods; but in my opinion the last is far preferable, and this is the method shown in connection with the drawings.

Having thus described my invention, I claim—

1. The combination, with the can having the bottom B, of the rim C, secured to the lower edge of the can, and the protecting-disk disposed within the rim and comprising the wooden disk G and the protecting casing or covering H, substantially as specified, for the purpose described.

2. The combination, with a can, A, of the rim

C, projecting below the lower edge thereof, the protecting-disk F within the rim, and the hoop K, surrounding the rim C and projecting below the lower edge thereof, all constructed and arranged substantially as specified.

3. The combination, with a can having a rib, D, extending therearound near the lower edge, of the protecting-disk F, secured to the can, and the hoop K, encircling the lower end of the can and bearing at its upper edge against the rib D, substantially as specified.

4. The combination, with a can, A, of the protecting-disk F, secured to the can, the depending flange around the edge of the said disk, and the hoop K, surrounding the lower end of the can and the disk F and riveted or otherwise secured to the said flange, substantially as specified.

5. The combination, with a can, A, of the rim C around the bottom thereof, having its upper edge turned over to form the rib D, the ring E within the rib, the protecting-disk F, disposed within the rim C and secured thereto by means substantially as described, and the hoop K, encircling the rim C and secured to the same by rivets L, the said rib D bearing on the upper edge of the hoop, substantially as and for the purpose specified.

6. The combination, with the can A, of the protecting-disk F, secured against the bottom of the can and comprising the wooden disk G and the metallic casing or covering H, substantially as and for the purpose hereinbefore described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

FRANK NEWBERRY GASKELL.

Witnesses:

BEN LAHR,

E. N. BOTSFORD.