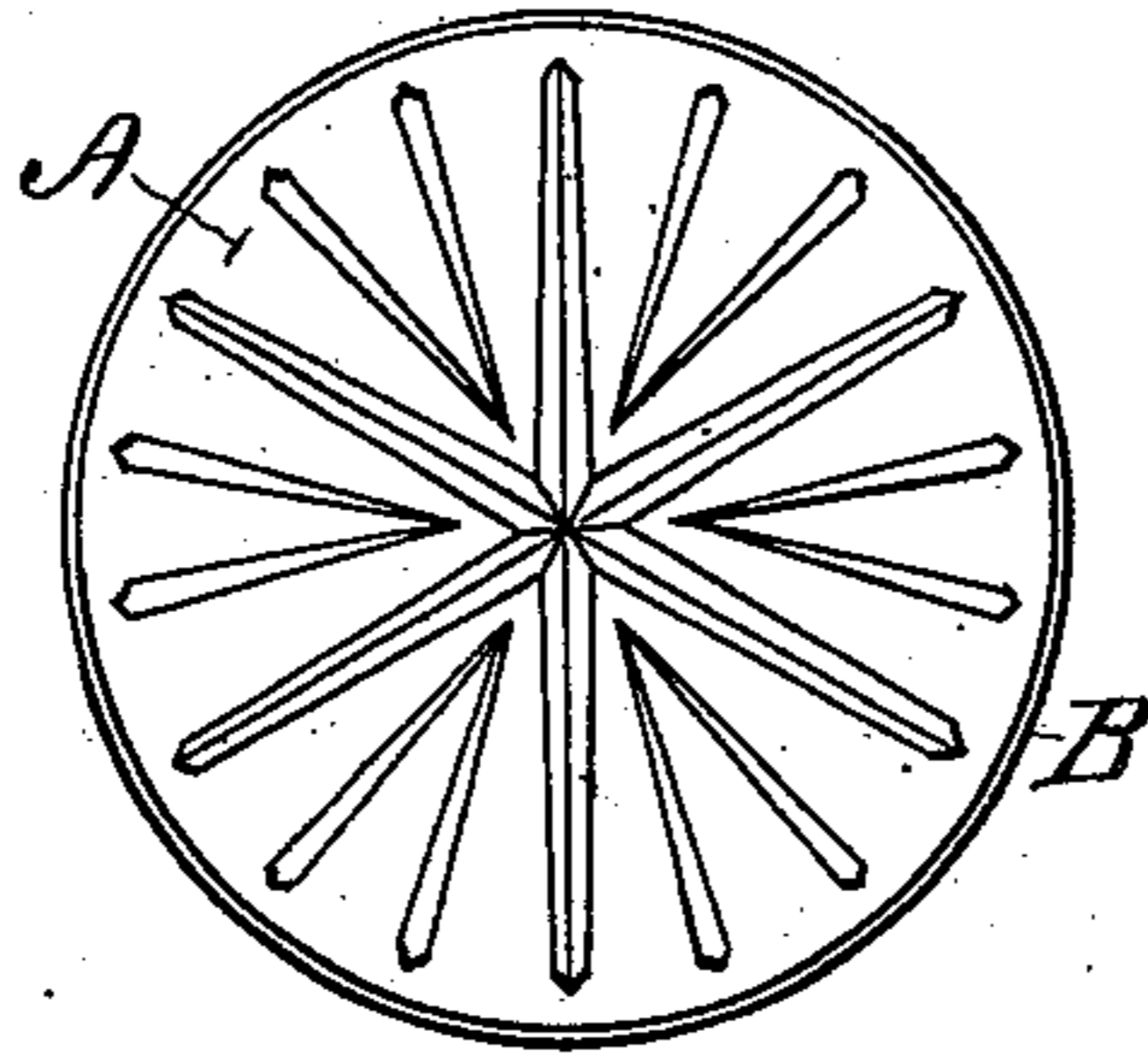


J. HILL.  
Cotton-Roving Cans.

No. 204,220.

Patented May 28, 1878.

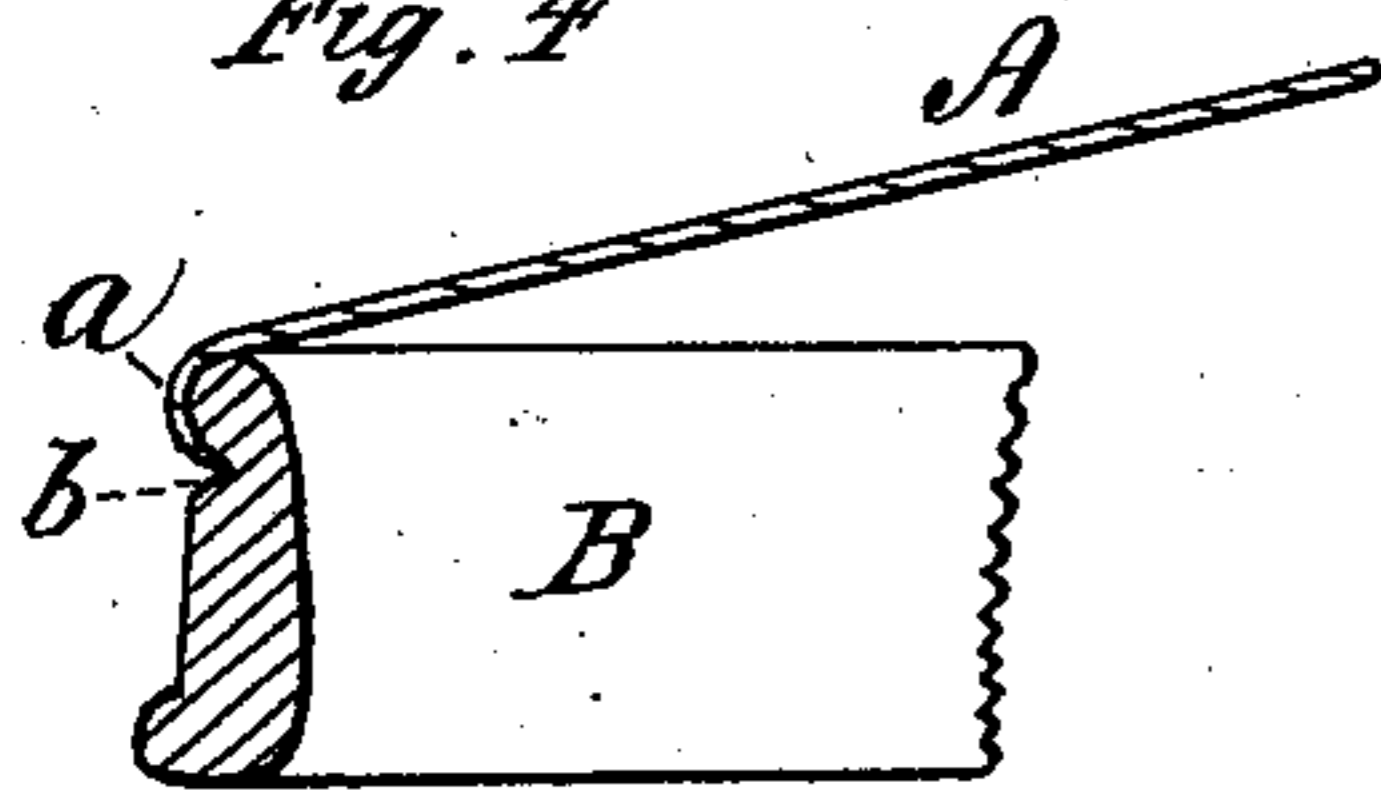
*Fig. 1.*



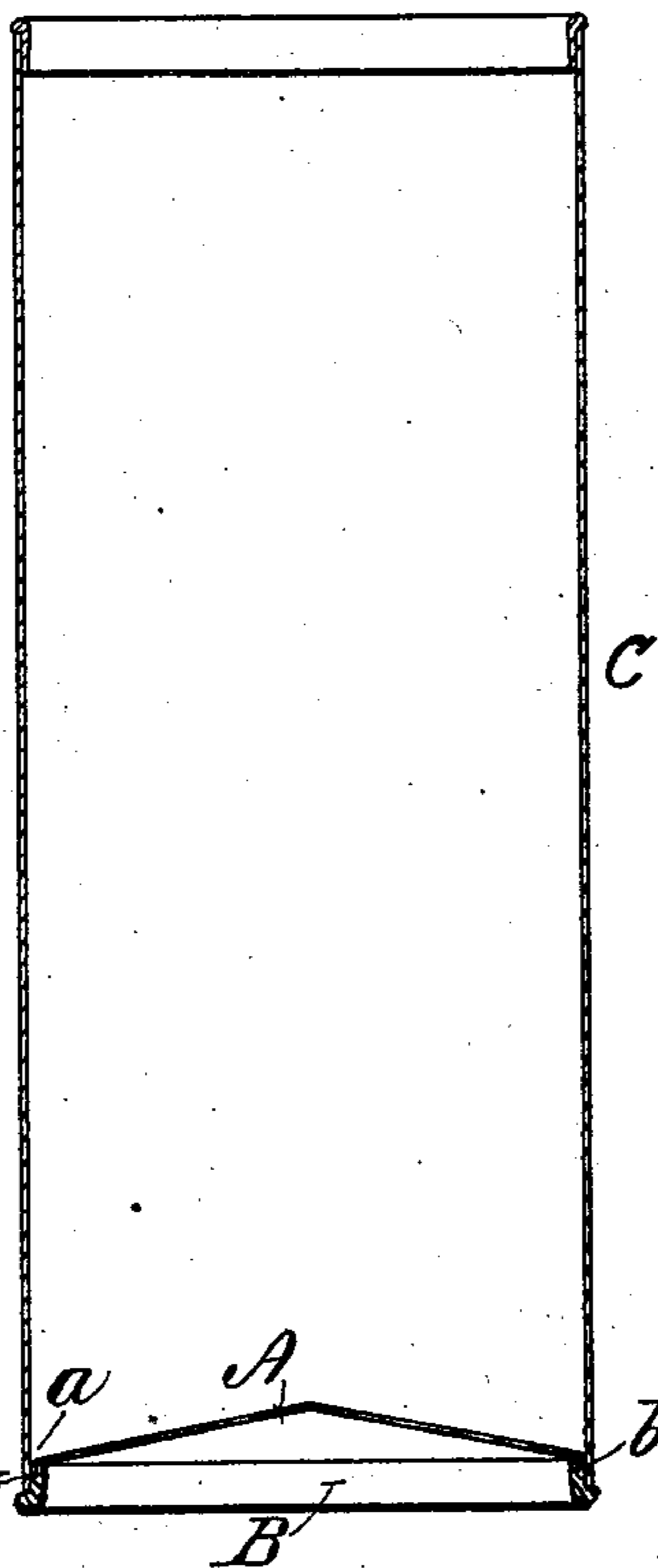
*Fig. 2.*



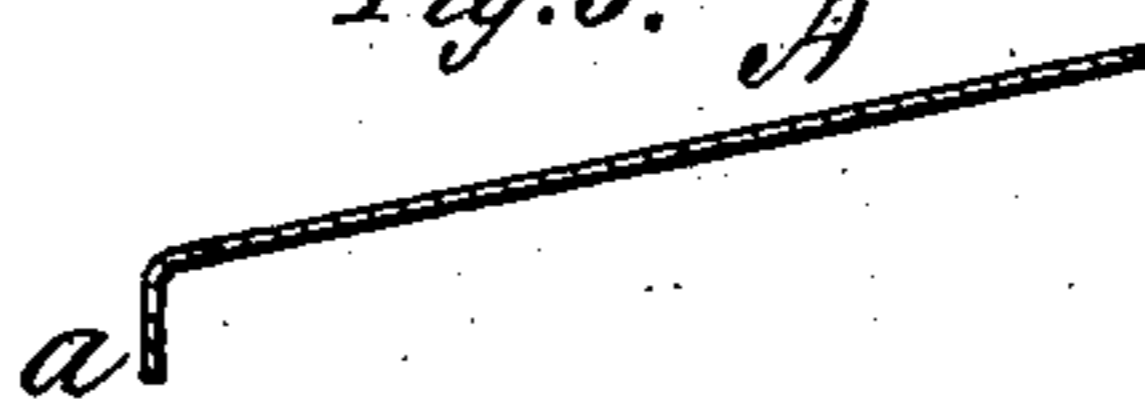
*Fig. 4.*



*Fig. 3.*



*Fig. 5.*



Witnesses.

Soerates Scholfield  
John Harner

Inventor.

James Hill

# UNITED STATES PATENT OFFICE.

JAMES HILL, OF PROVIDENCE, RHODE ISLAND.

## IMPROVEMENT IN COTTON-ROVING CANS.

Specification forming part of Letters Patent No. **204,220**, dated May 28, 1878; application filed April 19, 1878.

*To all whom it may concern:*

Be it known that I, JAMES HILL, of Providence, in the State of Rhode Island, have invented an Improvement in Cotton-Roving Cans, of which the following is a specification:

The nature of my invention consists in the combination of a stamped or formed-up disk of sheet metal with an iron hoop, so that the whole may thereafter be readily secured to the body of the can by soldering or otherwise.

Figure 1 is a top view of the improved bottom. Fig. 2 is an edge view. Figs. 3, 4, and 5 are sectional views.

In the drawing, A is a stamped-up plate or disk of sheet metal, having a flange, *a*, turned down slightly, as shown in Fig. 5, and locked into the groove *b* made in the outside surface of the tinned-iron hoop B, as shown in Fig. 4, so that the whole may, if desired, constitute a complete and salable manufacture to the trade. By thus joining the disk A and hoop B to form the bottom, a saving of material and additional strength are secured. The disk, being joined direct to the iron hoop, allows the flange *a* to be made very short, and the hoop can also be made narrower than heretofore.

I form up the cylinder C from a single sheet of iron, and, after suitably locking the longitudinal edges, dip the ends into the proper acid baths, and then into melted solder, by means of which the iron will be tinned to the proper distance from the end of the cylinder

for the subsequent attachment of the tinned hoop. The hoop is then placed in proper position, and the end of the cylinder and the inclosed or incasing hoop dipped in melted solder, when a complete soldered union will be effected with rapidity and cheapness. I am by this means enabled to make a great saving in cost of material in comparison to cans made of tin, amounting to about forty cents per can.

I prefer to strike up my improved bottom with radial corrugations, as set forth in my application for patent filed March 18, 1878.

I am aware that a flange has heretofore been raised above the general surface of an iron hoop for the purpose of securing a disk of sheet metal in the manufacture of paint-cans; but my improvement consists in forming a groove below the general surface of the hoop, into which the flange of the disk is turned. In case the hoop B is flanged above its general surface, as heretofore, it will not fit the cylinder of a cotton-can properly; but it requires the groove *b* below the general exterior surface of the hoop to make a practical adaptation to cotton-cans.

I claim as my invention—

A bottom for cotton-roving cans, formed with a sheet-metal disk, A, locked to the hoop B by means of the flange *a* and groove *b*, substantially as described.

JAMES HILL.

Witnesses:

SOCRATES SCHOLFIELD,  
JOHN HAMER.