

J. McAULIFFE.
Umbrellas.

No. 141,941.

Patented August 19, 1873.

Fig. 1.

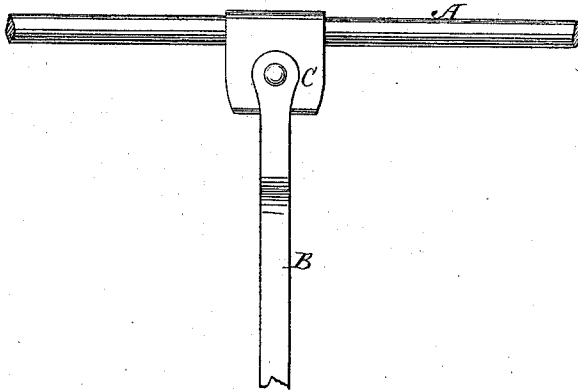


Fig. 2.



Fig. 3.

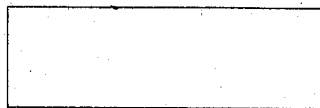


Fig. 4.

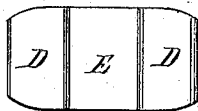


Fig. 5.

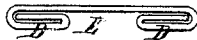


Fig. 6.



Witnesses:

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UNITED STATES PATENT OFFICE.

JOHN MCAULIFFE, OF NEW YORK, N. Y.

IMPROVEMENT IN UMBRELLAS.

Specification forming part of Letters Patent No. **141,941**, dated August 19, 1873; application filed March 8, 1873.

To all whom it may concern:

Be it known that I, JOHN MCAULIFFE, of the city, county, and State of New York, have invented a new and Improved "Lap" for Connecting Umbrella Ribs and Braces, of which the following is a specification:

I propose to make clips or "laps" for fastening to umbrella-ribs, to pivot the braces to, by taking little strips of sheet metal, well coated with tin, and fold the ends over back on one side, say, about twice, or enough to make the elevation of the folded part about half the thickness of the rib, and so that the space between the said folded part will be just enough to wrap around the brace and inclose it snugly when the folded parts meet on the inside of the rib, to form a projection to which the branched end of the brace can be pivoted; and these ends and the folds I unite together, and also unite the lap to the rib, by a drop of solder from the soldering-iron, and by heating the lap so as to fuse the solder on it, and thus have a strong lap securely fastened to the rib without too much solder, and without indenting the rib, which weakens it and renders it liable to break.

Figure 1 is a side elevation of part of an umbrella-rib, also part of a brace, and also my improved lap fastened to the rib, and the brace pivoted to it. Fig. 2 is an end elevation of Fig. 1. Fig. 3 is a diagram of the sheet-metal blank I use for the lap. Fig. 4 is a plan view of it with the ends folded up ready for wrapping around the brace. Fig. 5 is an end elevation of Fig. 4; and Fig. 6 is an end elevation of the lap, showing the form after it is wrapped around the rib.

Similar letters of reference indicate corresponding parts.

A is the umbrella-rib; B, the brace; C, the lap.

To make this lap, I take a thin strip of tinned sheet metal, of approved width, and of the length required, which I previously ascertain, and fold the ends on one side, say, two folds, as shown at D, Figs. 4 and 5, making the folds as long as I wish the lap to project from the rib, and taking care that the space E between the folds will be just long enough to wrap around the rib and inclose it snugly in the space F, Fig. 6, and then apply a drop or two of solder by the hot soldering-tool, and heat the folded lap so as to fuse the tin on it to unite all the folds, and unite the whole to the rib and fill up any spaces that may be between the ends of the folds and the rib. Before wrapping the lap around the rib I will polish the latter clean, so that the solder will readily unite with it.

Thus I make a simpler, cheaper, and better lap than any heretofore made.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination, with ribs A, of the sheet-metal strip, having a double lap, D, at each end, and an intermediate space, E, which entirely closes said rib, as shown and described.

JOHN MCAULIFFE.

Witnesses:

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