

T. GINGRAS.
Leather-Washer.

No. 210,848.

Patented Dec. 17, 1878.

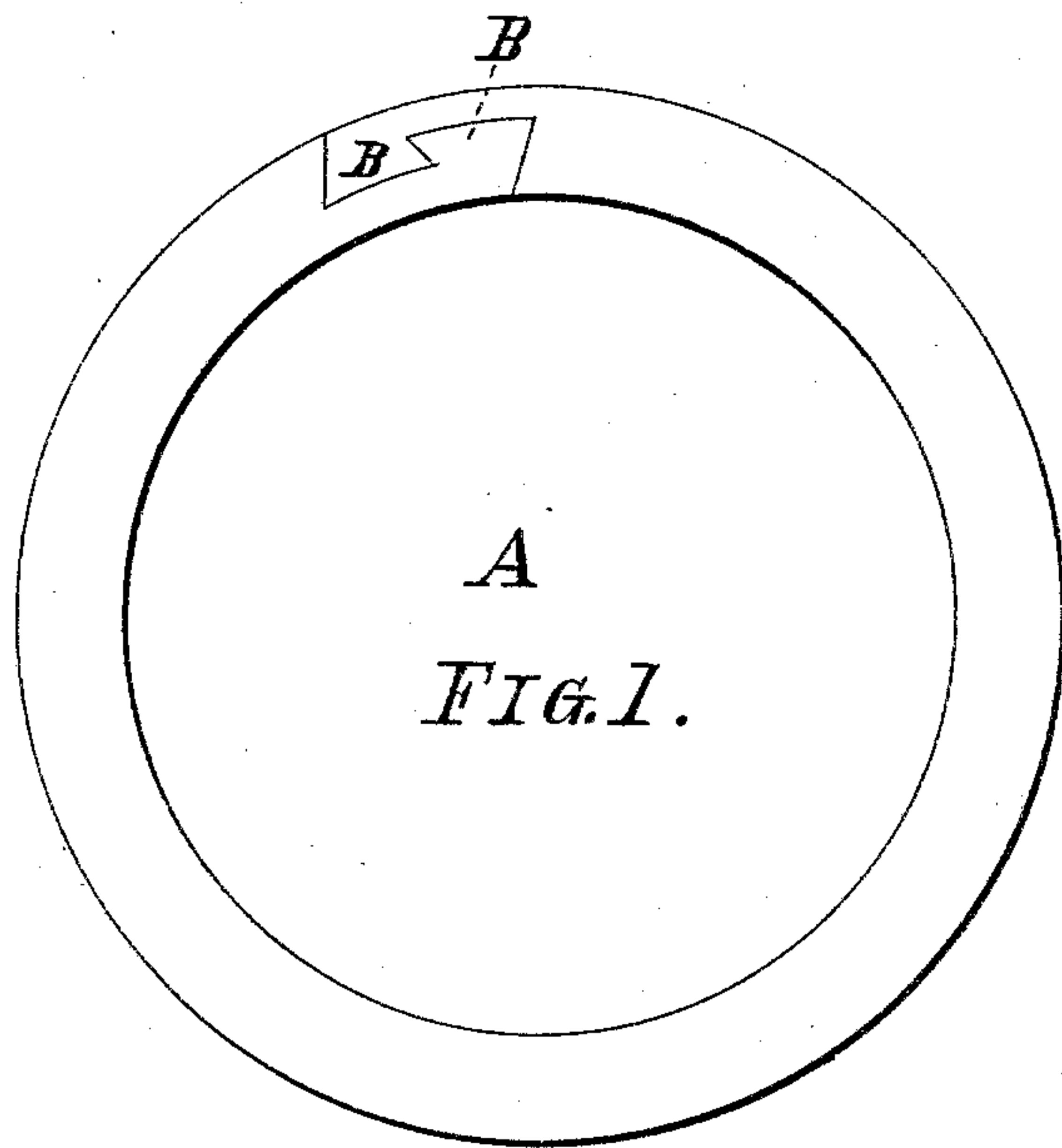
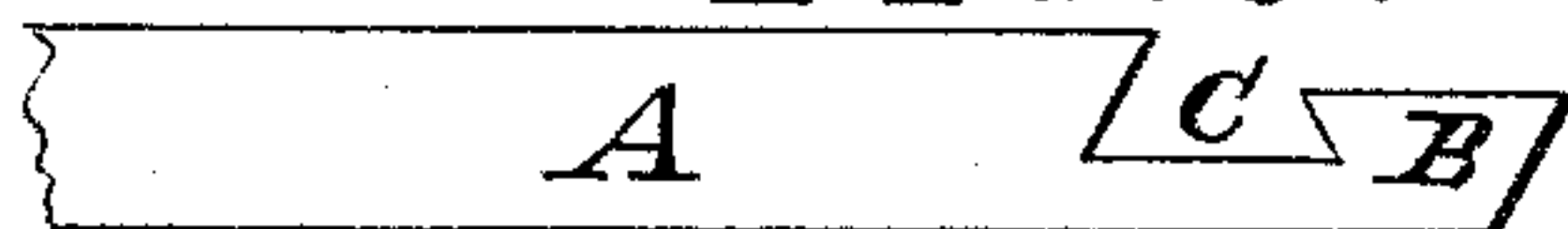


FIG. 2



FIG. 3.



Witnesses:

Michael J. Stark
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Inventor:

Timothy Gingras
by Michael J. Stark,
atty.

UNITED STATES PATENT OFFICE.

TIMOTHY GINGRAS, OF BUFFALO, NEW YORK, ASSIGNOR OF ONE-HALF HIS
RIGHT TO ALFRED HALL, OF SAME PLACE.

IMPROVEMENT IN LEATHER WASHERS.

Specification forming part of Letters Patent No. **210,848**, dated December 17, 1878; application filed
October 9, 1878.

To all whom it may concern:

Be it known that I, TIMOTHY GINGRAS, of Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements on a Leather Washer; and I do hereby declare that the following description of my said invention, taken in connection with the accompanying sheet of drawings, forms a full, clear, and exact specification, which will enable others skilled in the art to which it appertains to make and use the same.

This invention has special reference to leather washers; and it consists in the peculiar arrangement of parts and details of construction, as hereinafter first fully set forth and described, and then pointed out in the claim.

In the drawings heretofore mentioned, Figure 1 is a plan of my improved washer. Fig. 2 is a plan of the joint, illustrating the lines of cutting from a strip of leather. Fig. 3 is a plan of one end of said strip.

Like letters of reference indicate corresponding parts in all the figures.

These washers are composed and constructed of strips of leather of proper width and thickness, cut into lengths suitable to form a circular ring of the desired diameter. These strips of leather I propose to cut, as indicated in the figures, so as to produce on each end a dovetailed tenon, B, and a corresponding mortise or groove, C, the cut being such as to make fac-simile parts on both ends with one cutting. These strips I shall roll to form them into cir-

cular shape, and then insert the mortises B into the grooves C, whereby said ends are securely locked, after which I shall dip them into liquid cement and subject them to pressure in properly-constructed dies, which causes the leather to compress and the joint to firmly adhere, thus producing a washer far superior to any taper, spliced, or otherwise constructed washer, at but a trifling expense.

The strips A may be made of waste, which is abundantly found in shoe, belting, &c., factories, where leather of the proper quality and kind is used, care being taken to cut the dovetails and mortises in such manner as to expose the grain of the leather on both the planes or wearing-surfaces of the washer after being completed.

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

The washer hereinbefore described, composed of a strip of leather bent into form, and having both extremities provided with the dovetailed tenons B and the grooves C, as and for the purpose set forth.

In testimony that I claim the foregoing as my invention I have hereto set my hand and affixed my seal in the presence of two subscribing witnesses.

TIMOTHY GINGRAS. [L. S.]

Attest:

MICHAEL J. STARK,
JNO. STARK.