

(No Model.)

T. GINGRAS.
LEATHER WASHER.

No. 331,293.

Patented Dec. 1, 1885.

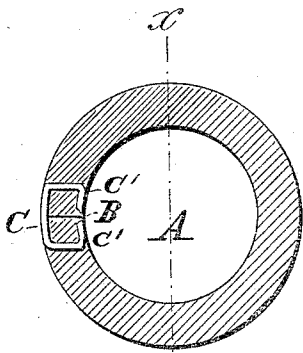


FIG. 1.

x

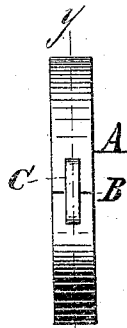


FIG. 2.

y

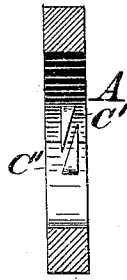


FIG. 3.

Witnesses:

Al. Stark
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Inventor:

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by *Michael J. Stark*
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UNITED STATES PATENT OFFICE.

TIMOTHY GINGRAS, OF BUFFALO, NEW YORK.

LEATHER WASHER.

SPECIFICATION forming part of Letters Patent No. 331,293, dated December 1, 1885.

Application filed September 28, 1885. Serial No. 178,332. (No model.)

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
5 Improvements in Leather Washers; 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
10 enable others skilled in the art to which it appertains to make and use the same.

My present invention has general reference to improvements in leather washers; and it consists, essentially, in the novel and peculiar
15 combination of parts and details of construction, as hereinafter first fully set forth and described, and then pointed out in the claims.

In the drawings already mentioned, which serve to illustrate my said invention more
20 fully, Figure 1 is a longitudinal sectional elevation in line *yy* of Fig. 2. Fig. 2 is a side elevation, and Fig. 3 is a transverse sectional elevation in line *xx* of Fig. 1.

Like parts are designated by corresponding
25 letters of reference in all the figures.

The object of my present invention is the production of a cheap leather washer for such purposes where a tight joint is not a requisite, such as axles-washers, &c. To attain this result, I construct a leather washer of a strip of
30 leather, having the proper length to form a ring of the desired diameter, when the ends B are butted, and secure them together by means of a metallic double-pointed tack or staple, C, driven through the leather from the outer
35 to the inner side, (or from side to side, if desired,) and clinched on the opposite side at C' C', the staple or fastening being embedded into the leather, so that there is no metallic
40 portion projecting beyond the surface of the washer.

By constructing the washer in the manner described I obtain many advantages not capa-

ble of being attained by any other method of procedure, prominent of which are, that I may
45 make these washers entirely of waste material, such as is abundantly found in belt-factories and other establishments using leather, that much less of the stock is used; that less
50 labor is consumed in forming the ring and securing the joint, and that the subsequent operations of pressing and polishing can be much more readily performed than when the ends are joined in any other manner.

In places where the possible exposure of the
55 metal would act injuriously to adjacent portions, I prefer to use a double-pointed tack or staple, made of copper or analogous soft metal, while for purposes where no injury would result from such exposure I may employ tacks
60 or staples made from a cheaper material.

Having thus fully described my invention, I claim as new and desire to secure to me by Letters Patent of the United States—

1. As an improved article of manufacture, a
65 leather washer consisting of an annular ring having an abutting joint secured together by a double-pointed tack or staple inserted substantially as described, for the use and purpose indicated.

2. The herein-described improved leather
70 washer, consisting of a strip of leather having square ends, as described, said strip being formed into an annulus and the abutting ends secured together by means of a double-pointed
75 tack or staple driven into the leather from the periphery of the ring and clinched on the inner side thereof, substantially as and for the object specified.

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

TIMOTHY GINGRAS.

Witnesses:

MICHAEL J. STARK,
JESSIE A. TULLEY.