

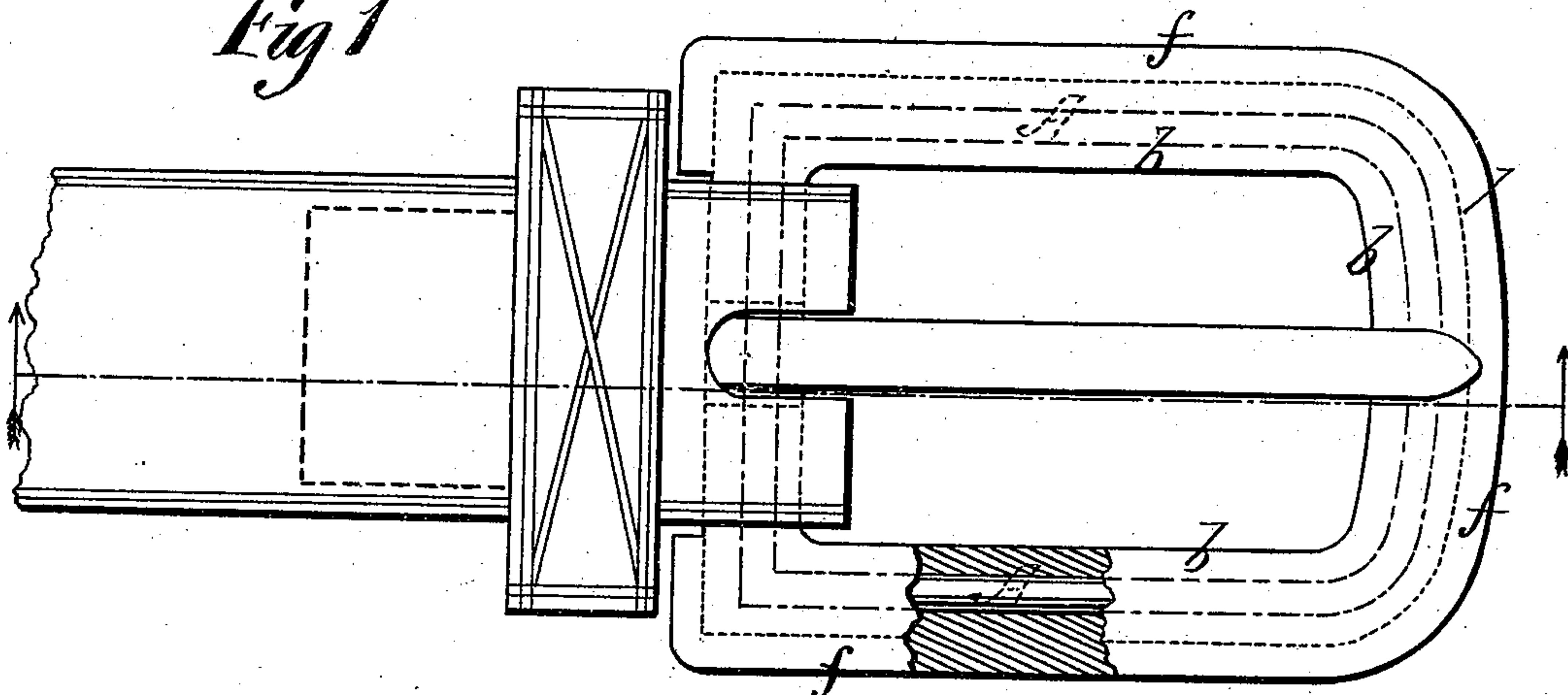
J. FEDER.

Process of Covering Harness-Mountings with Leather

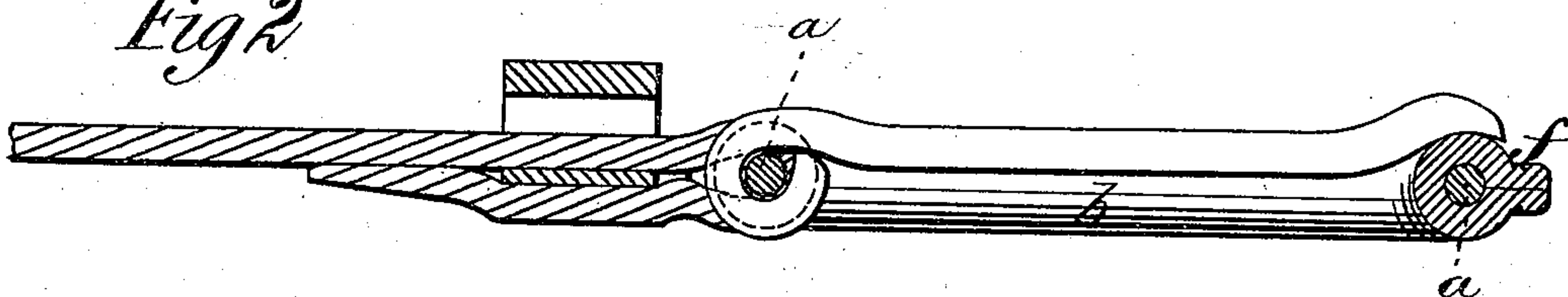
No. 169,158.

Patented Oct. 26, 1875.

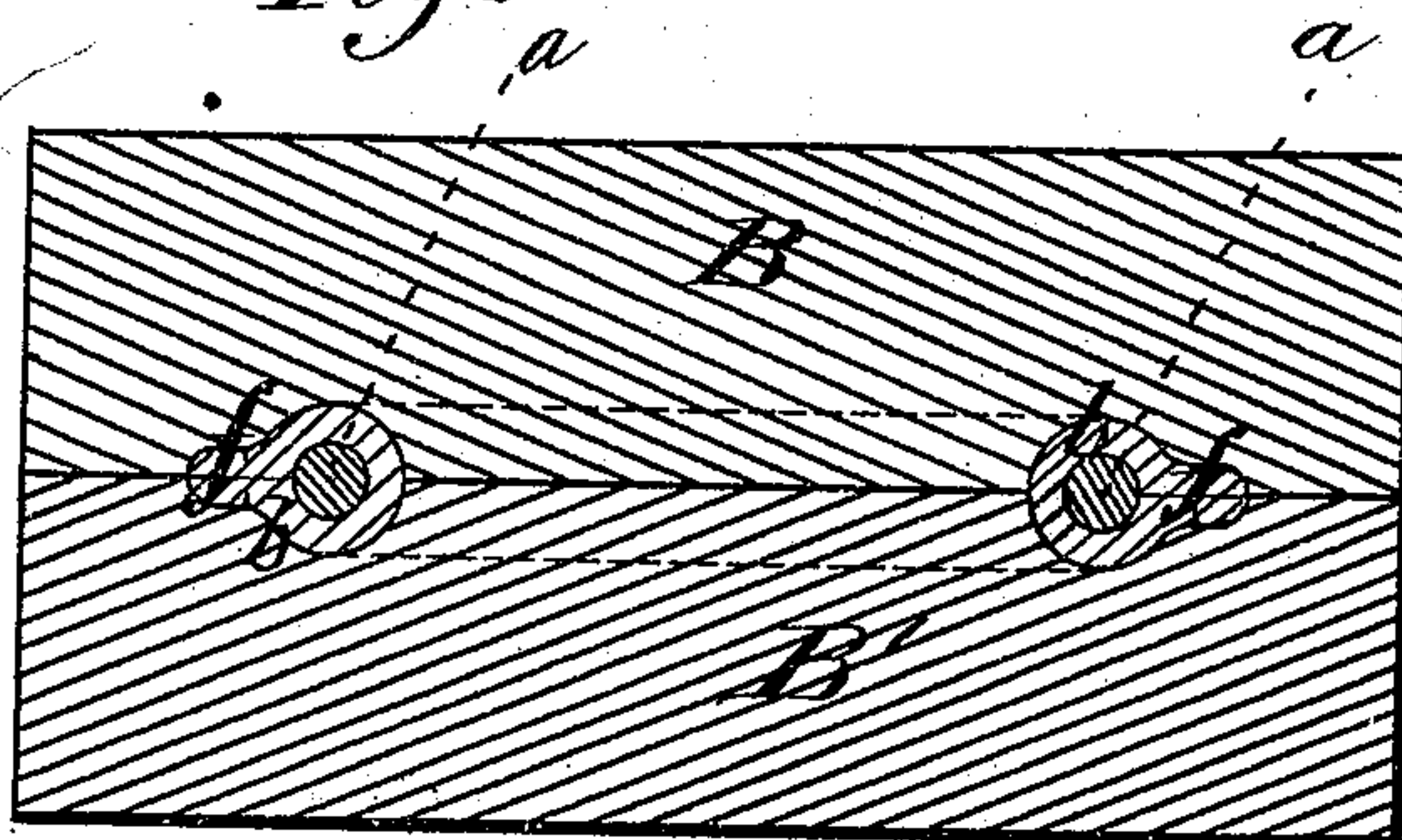
*Fig 1*



*Fig 2*



*Fig 3*



WITNESSES

*Eugene W. Johnson.*  
*Francis J. Chasi*

INVENTOR

*Joseph Feder*  
*Chapman & Co.*  
ATTORNEYS

# UNITED STATES PATENT OFFICE.

JOSEPH FEDER, OF NEWARK, NEW JERSEY.

## IMPROVEMENT IN PROCESSES OF COVERING HARNESS-MOUNTINGS WITH LEATHER.

Specification forming part of Letters Patent No. **169,158**, dated October 26, 1875; application filed September 4, 1875.

*To all whom it may concern:*

Be it known that I, JOSEPH FEDER, of Newark, in the county of Essex and State of New Jersey, have invented a new and valuable Improvement in Leather-Covered Harness-Mountings; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a buckle prepared after my method, and Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is a sectional view, showing the buckle in a press.

This invention has relation to improvements in leather-covered harness-buckles. The object of the invention is to devise a means whereby the expensive and tedious process of stitching the covering around the frame of a buckle may be dispensed with, and a less costly, but equally effective and ornamental, means substituted.

The nature of the invention consists in a process of covering harness-buckles and trimmings with leather, which is passed around the metallic frame of the same and secured thereon, as will be hereinafter more fully set forth.

In the annexed drawings, the letter A designates a metallic buckle-frame, differing in no essential respect from those commonly used by the trade, in connection with which I propose to illustrate my invention. This frame is usually covered with leather, which is passed around the bars *a* of the frame in such a manner that the free edges of the strip used for the purpose shall meet upon the outside. These edges are then brought into close contact, and are sewed together in such a manner as to draw the leather smoothly over the surface of the frame, any surplus material being subsequently trimmed off as close as possible without cutting the stitches. The expense attending this process has been so great that

it has been the custom to import leather-covered buckles, it being cheaper than to manufacture them here; and many plans, such as molding or swaging metallic or gutta-percha buckle-frames into shapes resembling the imported article, have been resorted to to overcome this difficulty. This I have done by the following means, to wit: The leather covering-strip *b* is passed around the buckle-frame, and the latter placed under a die, B B', of corresponding form, a strong cement having been previously spread upon the inner surfaces of the leather. The die is then operated by a suitable motor, causing the edges of the strip to be brought closely and evenly in contact. At the same time the power applied will stretch the leather tightly over the surface of the frame, and the cement will take hold not only of the contacting surfaces of the leather and frame, but also of the edges of the strip, insuring a close union thereof. The great pressure of the die will cause a flange, *f*, to be formed upon and around the outer edge of the frame, greatly resembling that formed by sewing the edges together; and in order to still further increase the resemblance, the upper and lower surfaces of the flanges will be slightly punctured by the dies in imitation of the depressions formed in sewing in the ordinary way. By this means the full strength of the leather is maintained, and the attachment of the same to the frame is correspondingly strengthened.

What I claim as new, and desire to secure by Letters Patent, is—

The process of applying the leather coverings to buckles and harness-trimmings by means of cement and pressure, substantially as herein set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOSEPH FEDER.

Witnesses:

WALTER C. MASI,  
FRANCIS J. MASI.