

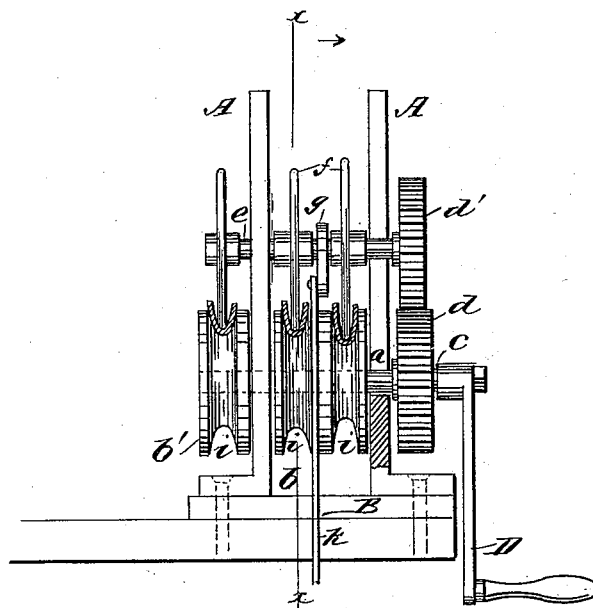
(No Model.)

C. S. AMES.  
LEATHER ROLLING MACHINE.

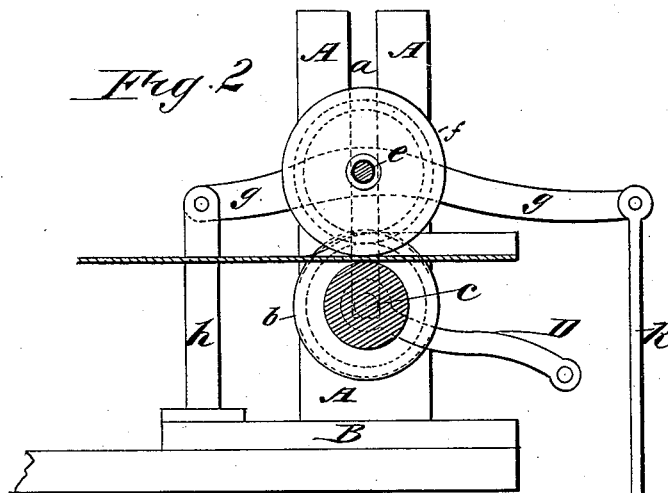
No. 342,946.

Patented June 1, 1886.

*Fig. 1*



*Fig. 2*



WITNESSES:

*O. Mc Ardle*  
*C. Sedgwick*

INVENTOR:

*C. S. Ames*

BY

*Munn & Co*  
ATTORNEYS.

# UNITED STATES PATENT OFFICE.

CHARLES SUMNER AMES, OF BISHOP, ILLINOIS.

## LEATHER-ROLLING MACHINE.

SPECIFICATION forming part of Letters Patent No. 342,946, dated June 1, 1886.

Application filed September 1, 1885. Serial No. 175,922. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES SUMNER AMES, of Bishop, in the county of Mason and State of Illinois, have invented a new and  
5 Improved Machine for Rolling Leather, of which the following is a full, clear, and exact description.

My invention relates to the construction of a machine to be used for the purpose of rolling flat leather strips to a U form, in order  
10 that said strips may be drawn about a center filling for the purpose of making a round line, cheek-piece, or other portion of a harness; and the invention consists of details of  
15 construction and combination of parts to be hereinafter explained, and specifically pointed out in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification,  
20 in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a front elevation of my improved rolling-machine, a portion of one of the standards being broken away to disclose  
25 the construction of the parts; and Fig. 2 is a vertical sectional elevation thereof, taken on line *x x* of Fig. 1.

A A represent two vertical standards that are rigidly secured to a bed or base plate, B.  
30 Each of these standards A A is slotted, as shown at *a*, and in the slot *a* there is mounted a shaft, *c*, which carries one or more grooved rollers, as *b b'*, and a gear-wheel, *d*, both the rollers and the gear-wheel being fast to the  
35 shaft, which is provided with a crank-handle, D. The shaft *c* rests in bearings formed at the base of the two slots marked *a*, and a second shaft, *e*, which carries circular metallic disks *f*, rides in the same slots in position to  
40 allow the rounded peripheries of the disks *f* to enter the grooves in the rollers *b b'*. The shaft *e* carries a gear-wheel, *d'*, which meshes with the gear *d*, so that when the shaft *c* is rotated by turning the handle D motion will  
45 also be imparted to the shaft *e*. A pressure-lever, *g*, is loosely mounted on the shaft *e*, one

end of said lever being pivoted to the standard *h*, while the other end is connected to a treadle (not shown in the drawings) by the rod *k*.

The operation of the machine is as follows: The leather to be operated upon, having been cut into strips of the required width and properly moistened, is inserted within the bite of the rollers *b* and the disks or formers *f*, and, a  
55 proper pressure being applied by means of the treadle and lever *g*, the crank D is rotated so that the strip will be drawn forward between the roller and the disk and pressed to the required U form, so that the filling may  
60 be inserted and the edges of the strip stitched together.

The depth and pitch of the grooves *i* in the rollers *b b'* are varied to roll strips that are to be formed into round lengths of various  
65 diameter; and the idea of having more than one roll is to permanently construct a single machine that will turn out as many styles of work as there are rollers therein. In cases where the buckles are secured to the strips  
70 before they are crimped to form by the rolling operation described, the shaft *e* may be raised to allow the buckles to pass between the rollers and the disks by simply lifting the treadle end of the lever *g*.

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

In a leather-rolling machine, the combination, with the disk-shaped formers secured upon  
80 a shaft, of the spaced-apart concave grooved rollers with their concavities arranged in alignment with the peripheries of said formers, said rollers and disks having their shafts geared for joint action, together with means, substantially  
85 as described, for applying pressure to the formers, as shown and set forth.

CHARLES SUMNER AMES.

Witnesses:

HENRY BEAL,  
GEORGE W. WESSLING.