(No Model.)

C. S. AMES.

CHANNELING MACHINE.

No. 345,873. Patented July 20, 1886.

Fig. 1

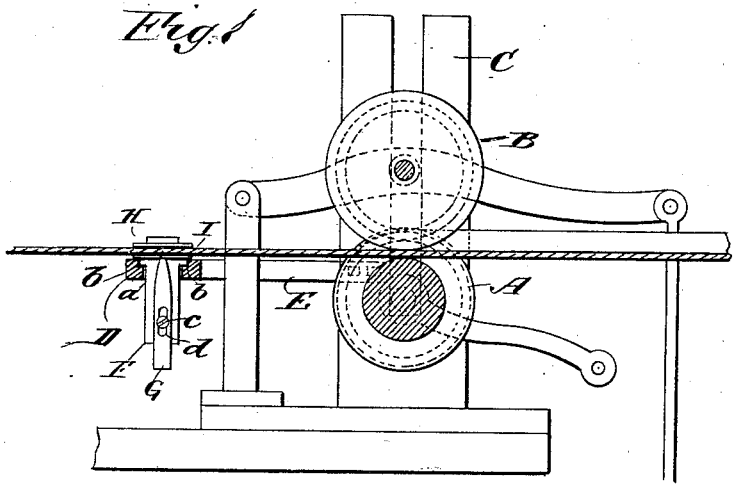


Fig. 2

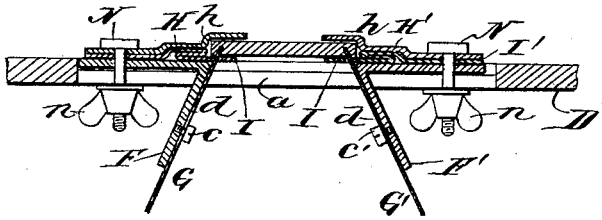
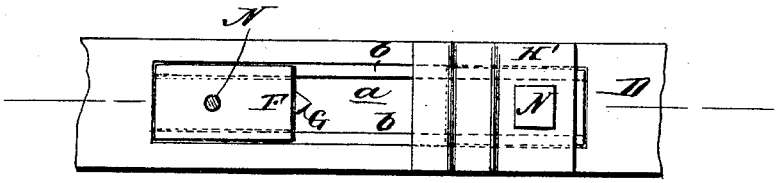


Fig. 3



WITNESSES:

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UNITED STATES PATENT OFFICE.

CHARLES S. AMES, OF BISHOP, ILLINOIS.

CHANNELING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 345,873, dated July 20, 1886.

Application filed January 8, 1886. Serial No. 187,994. (No model.)

To all whom it may concern:

Be it known that I, CHARLES S. AMES, of Bishop, in the county of Mason and State of Illinois, have invented a new and Improved Channeling-Machine, of which the following is a full, clear, and exact description.

My present invention relates to the construction of a channeling-machine applicable for use in connection with a leather-rolling machine, as is illustrated and described in my application No. 175,922, filed on the 2d day of September, 1885; and the invention consists of a pair of adjustably-mounted channeling-blades so arranged that they may be mounted in front of the formers of a leather-rolling machine, such as the one just referred to.

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

Figure 1 is a view of the leather-rolling machine provided with my improved channeling attachment, the view being taken in vertical cross-section. Fig. 2 is a longitudinal sectional view of the channeling-machine; and Fig. 3 is a plan view of said machine, one of the guiding-plates being removed to disclose the construction of the parts.

Referring, now, to the general construction illustrated in Fig. 1, A represents the grooved wheel, and B the former, of a leather-rolling machine, the shafts which carry the two parts named being mounted in bearings carried by standards C.

The channeling-machine which forms the subject-matter of this application is mounted on a cross-bar, D, which is supported by arms E, that are bolted to the standards C. In the bar D there is a central slot, *a*, upon either side of which there is formed a groove or way, *b*, and in these grooves there are mounted two supporting-irons, F F′, which carry channeling-knives G G′, that are secured to the supporting-irons by set-screws *c c′*, the knives G being formed with central longitudinal slots, *d*, so that they may be adjusted to regulate the depth of cut. Above the irons F there are arranged guiding-plates H H′, formed with shoulders *h h*, the point of the knives, however, being held against displacement by apertured plates I I′, through which the knives project, the plates named being apertured to receive the bolts N, which pass through said parts and through slot *a* of the bar D, to engage with winged nuts *n*, by which they are bound to the bar D. Such being the general construction of the device, it will readily be understood that by loosening the winged nuts *n* the knives may be adjusted to operate upon any width of strap; and it will also be understood that the depth of cut can be regulated by raising or lowering the knives, this movement being brought about by loosening the set-screws *c*. The devices having been properly adjusted, the strap is fed in between the knives, being guided by the shoulders *h h* of the plates H H′, the leading end of the strap being carried into the bite of the rollers A and the disk or former B, which, in rotation of the shaft upon which the roller A is mounted, will carry the strap forward and the required channel will be formed along the edges of the strap.

By the use of such a machine as has been described there is a great saving of time, labor, and expense in channeling leather, and although I have illustrated the invention in connection with a leather-rolling machine, it will of course be understood that the device might be used with any other form of rollers which would bite upon the strap and carry it forward; or the machine might be used without any rollers, in which case the strap would be simply pulled by hand or otherwise over the edges of the knives G G′.

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

1. In a channeling-machine, the combination, with the bar D, of supporting-irons carrying channeling-knives, guiding-plates, and an attaching device, all arranged to operate substantially as described.

2. In a channeling-machine, the combination, with a bar, D, of supporting-irons F F′, adjustably connected to said bar and carrying knives G G′, and guide-plates H H′, formed with shoulders *h h*, substantially as described.

3. In a channeling-machine, the combination, with a bar, D, formed with a central slot, *a*, and ways *b b*, of supporting-irons F F′, channeling-knives G G′, formed with a slot, *d*, and held in place by set-screw *c*, knife-guiding plates I I′, guiding-plates H H′, formed with shoulders *h h*, bolts N, and nuts *n*, substantially as described.

CHARLES S. AMES.

Witnesses:
DAVID KEPFORD,
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