

H. KELLOGG.

Machines for Forming Linings for Axle-Boxes.

No. 133,450.

Patented Nov. 26, 1872.

fig. 1

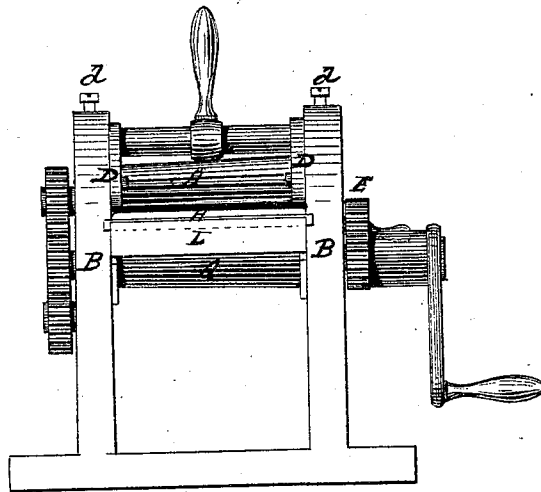


fig. 2

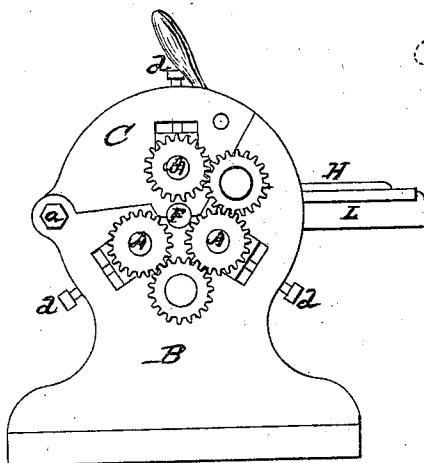


fig. 3

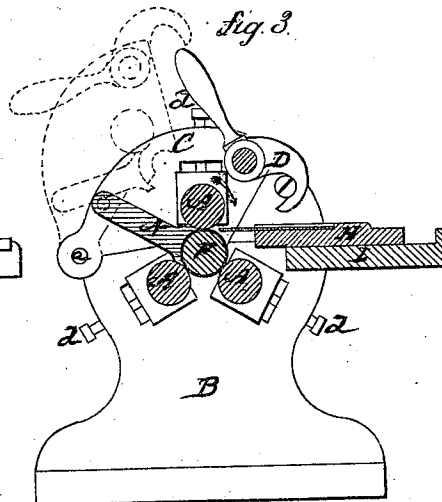
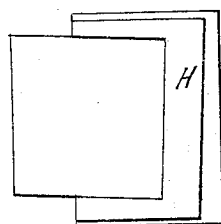


fig. 4



Witnesses.

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HENRY KELLOGG, OF MILFORD, CONNECTICUT.

IMPROVEMENT IN MACHINES FOR FORMING LININGS FOR AXLE-BOXES.

Specification forming part of Letters Patent No. **133,450**, dated November 26, 1872.

To all whom it may concern:

Be it known that I, HENRY KELLOGG, of Milford, in the county of New Haven and State of Connecticut, have invented a new Improvement in Apparatus for Forming the Lining for Axle-Boxes; and I do hereby declare the following, when taken in connection with the accompanying drawing and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawing constitutes part of this specification, and represents, in—

Figure 1, a front view; Fig. 2, an end view; Fig. 3, a central transverse section; and in Fig. 4, a detached view.

This invention relates to a device for forming a sheet-metal lining for carriage-axle boxes, especially designed as an auxiliary device for the machine for lining axle-boxes for which I have filed an application for patent in even date herewith; and it consists in the combination of rolls with a former and a mechanism for presenting the plate, whereby the plate, when properly presented, is rolled into a cylindrical form in condition to be inserted into the axle-box.

A are three cylindrical rolls of conical form—that is, corresponding to the form of the box—which is usually tapering. These rolls are arranged in suitable bearings B, and geared together, as denoted in Fig. 2. In order to open the rolls the upper roll A is arranged in a bearing, C, hinged, as at *a*, so as to be raised from the other rolls, as denoted in broken lines, Fig. 3, but when in place is locked in position by a hook, D, or other suitable device. The rolls are adjusted relatively to each other by set-screws *d*. Centrally between these rolls and axially therewith a former, F, is inserted, its outer surface being of the shape and size required for the interior of the lining, and is put into gear with the rolls by a pinion, E, or otherwise, so as to be forced to revolve with

the said rolls. H is a carriage arranged upon suitable guides L, upon which the plate to be rolled is placed, and thereby properly presented to the rolls, as denoted in Fig. 3, the plate being shown on the carriage, as in Fig. 4. In the rear of the former a guide, N, is arranged having a concave surface corresponding to the former to guide the plate as it is drawn in. The plate is cut to the form required from suitable sheet metal and laid upon the carriage, as seen in Fig. 4; then, the rolls revolving, the carriage is forced forward to present the plate between one of the rolls and the former, here represented as the upper roll. The plate is taken by the revolving roll and former and drawn from the carriage; its edge, striking a guide, N, is bent down around the former, and, passing between the successive rolls and former is wrought into the shape defined by the former; then the rolls are opened, the former with the tube thereon is taken out, the tube removed ready for use, and the former replaced to produce a second tube by the operation before described.

While defining this invention as for the lining of axle-boxes—the purpose for which it is especially designed—I do not wish to be understood as limiting this invention to that purpose, as it will be evident to persons skilled in the use of similar machinery that this may be employed for many purposes.

I claim as my invention—

1. The revolving rolls A and the corresponding revolving former F combined with the guide N, substantially as described.

2. In combination with the above, the carriage H for presenting the blank plate to the rolls, substantially as set forth.

HENRY KELLOGG.

Witnesses:

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