(No Model.)

A. B. & M. D. WISE.

THILL COUPLING.

No. 275,740. Patented Apr. 10, 1883.

Fig 1

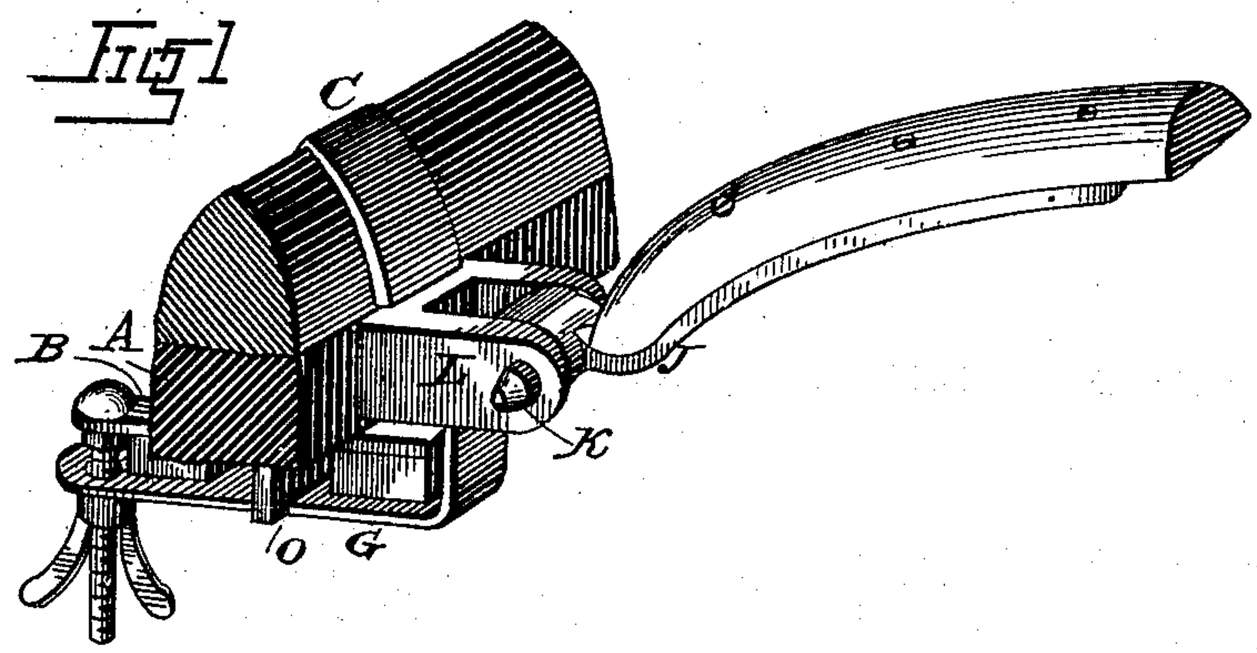


Fig 2

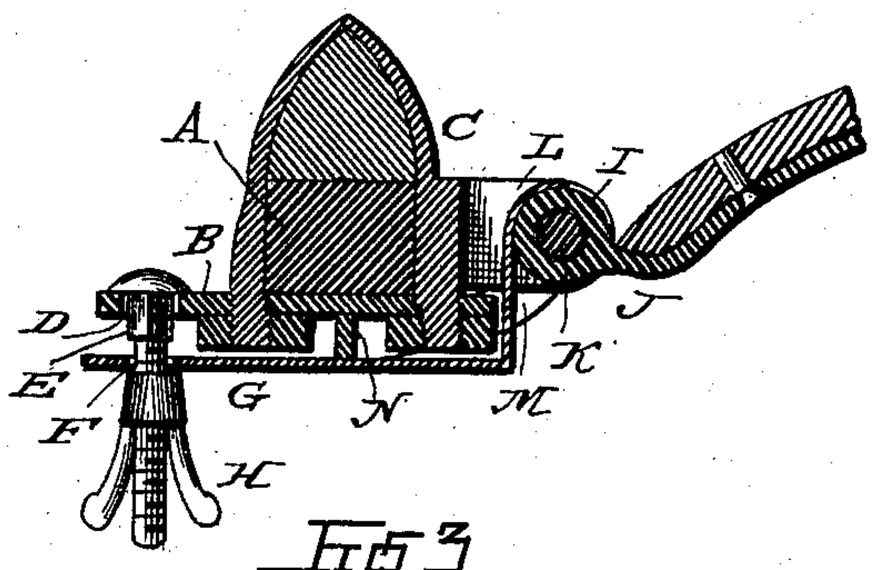
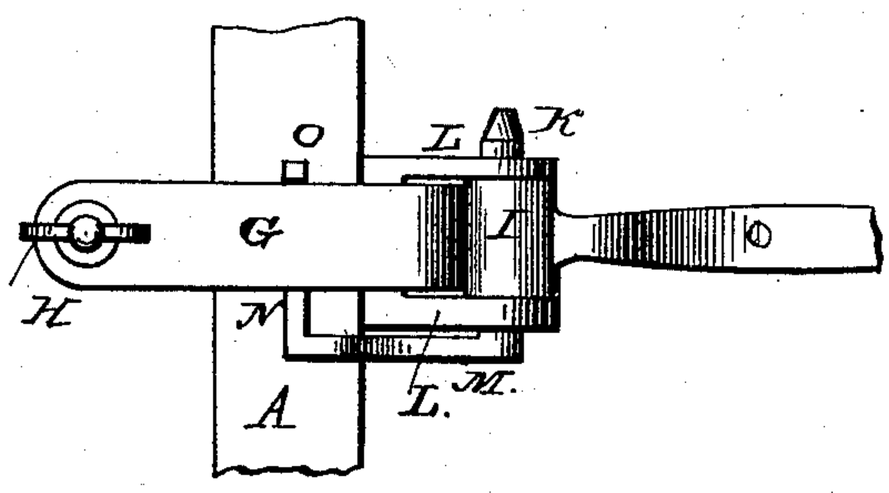


Fig 3



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UNITED STATES PATENT OFFICE.

AUGUST B. WISE AND MICHAEL D. WISE, OF PIQUA, OHIO.

THILL-COUPLING.

SPECIFICATION forming part of Letters Patent No. 275,740, dated April 10, 1883.

Application filed February 13, 1883. (No model.)

To all whom it may concern:

Be it known that we, AUGUST B. WISE and MICHAEL D. WISE, of Piqua, in the county of Miami and State of Ohio, have invented certain new and useful Improvements in Thill-Couplings; and we do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, in which—

Figure 1 is a perspective view of our improved thill-coupling. Fig. 2 is a vertical section, and Fig. 3 is a bottom view, of the same.

Similar letters of reference indicate corresponding parts in all the figures.

Our invention has relation to thill-couplings; and it consists in the improved construction and combination of parts of the same, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A indicates a part of the axle, upon the under side of which a plate, B, is fastened by means of a clip, C, the screw-threaded ends of which pass through two holes in the same, and are secured by nuts upon the under side. The rear end of plate B projects, and is provided with a square perforation, D, into which fits the square end of a screw, E, the head of which bears against the upper side of the plate, while its lower screw-threaded portion projects through a perforation, F, in the end of a spring, G, and is provided with a thumb-nut, H. The spring G passes forward under the nuts upon the clip, and is bent upward at a right angle, and the upward bent end is curved forward, bearing against the eye I of the thill-iron J, which is pivoted upon a bolt, K, passing through the eyes L upon the clip. From one end of bolt K projects a curved arm, M, at right angles to it, the end N of which is again bent at a right angle, running parallel to the bolt, and is provided at its end with a downward projection, O. When the bolt is inserted into the eyes I and L of the thill-iron and the clip, arm M points rearward and downward, and the end N of it projects in between the nuts upon the clip and over the horizontal portion of the spring, the projection O, bearing against one edge of the same, preventing the bolt from sliding out of the eyes.

It will be seen that the curved end of the spring which bears against the eye of the thill-iron will prevent rattling of the same, and that by tightening the thumb-nut upon the screw it will be brought to bear harder against the eye, thus taking up wear of the eye or the bolt. To remove the thills the thumb-nut is loosened, causing the spring to release projection O, thus allowing the bolt to be withdrawn.

It will also be seen that the spring, passing immediately under the nuts, will prevent them from dropping off if they by an accident should become loose, thus securing the clip upon the axle.

Having thus described our invention, we claim and desire to secure by Letters Patent of the United States—

The herein-described thill-coupling, consisting of the clip C, thill-iron J, perforated plate B, screw E, having thumb-nut H, spring G, bent upward at a right angle and bearing with its upper curved end against the eye of the thill-iron, and bent bolt K M N, bent twice at right angles, and having projection O, all constructed and combined to operate as and for the purpose shown and set forth.

In testimony that we claim the foregoing as our own we have hereunto affixed our signatures in presence of two witnesses.

AUGUST B. WISE.
MICHAEL D. WISE.

Witnesses:
G. A. BROOKS,
W. A. MCPHERSON.