

(No Model.)

N. A. PRIMUS.  
THILL COUPLING.

No. 274,656.

Patented Mar. 27, 1883.

Fig. 1.

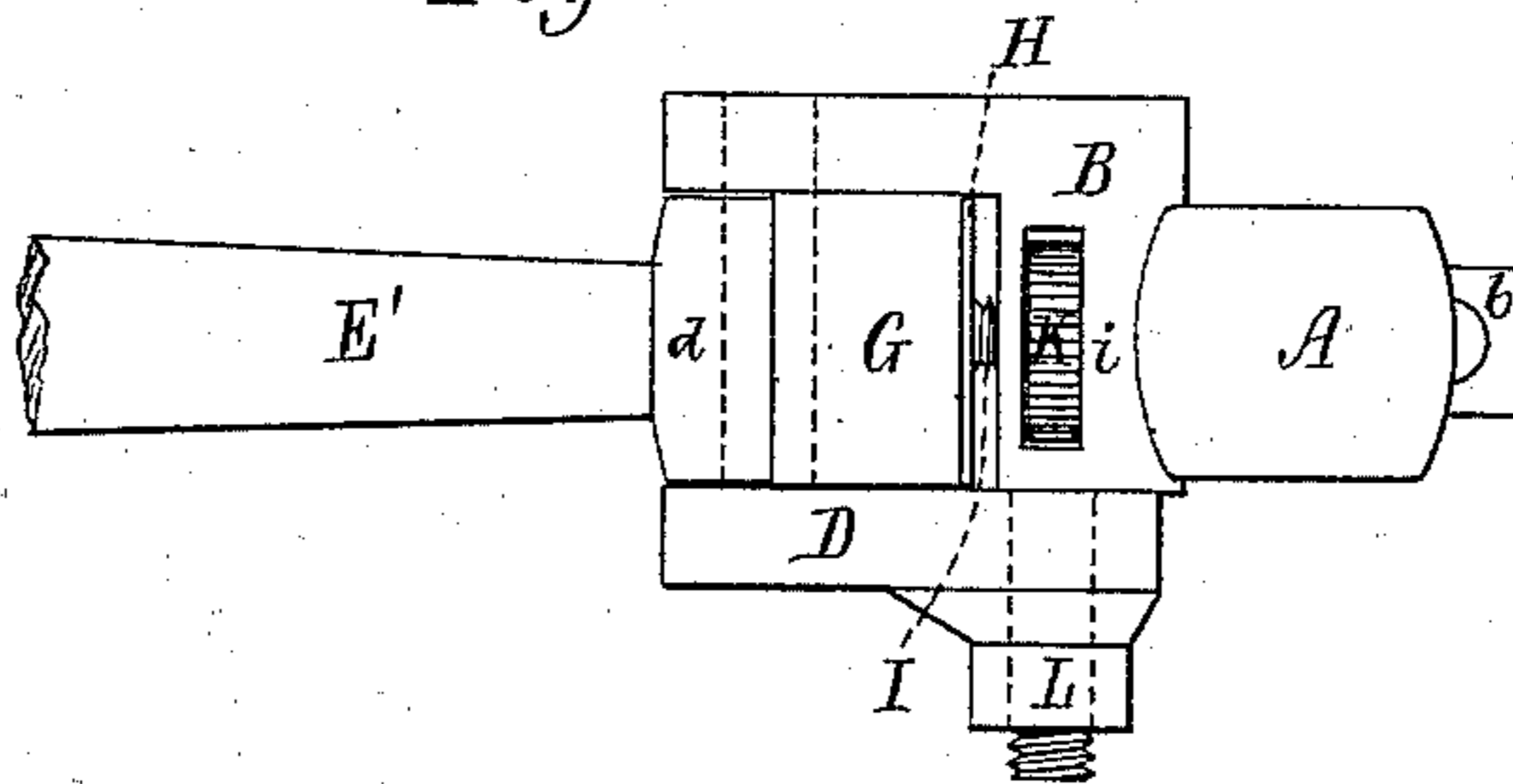


Fig. 4.

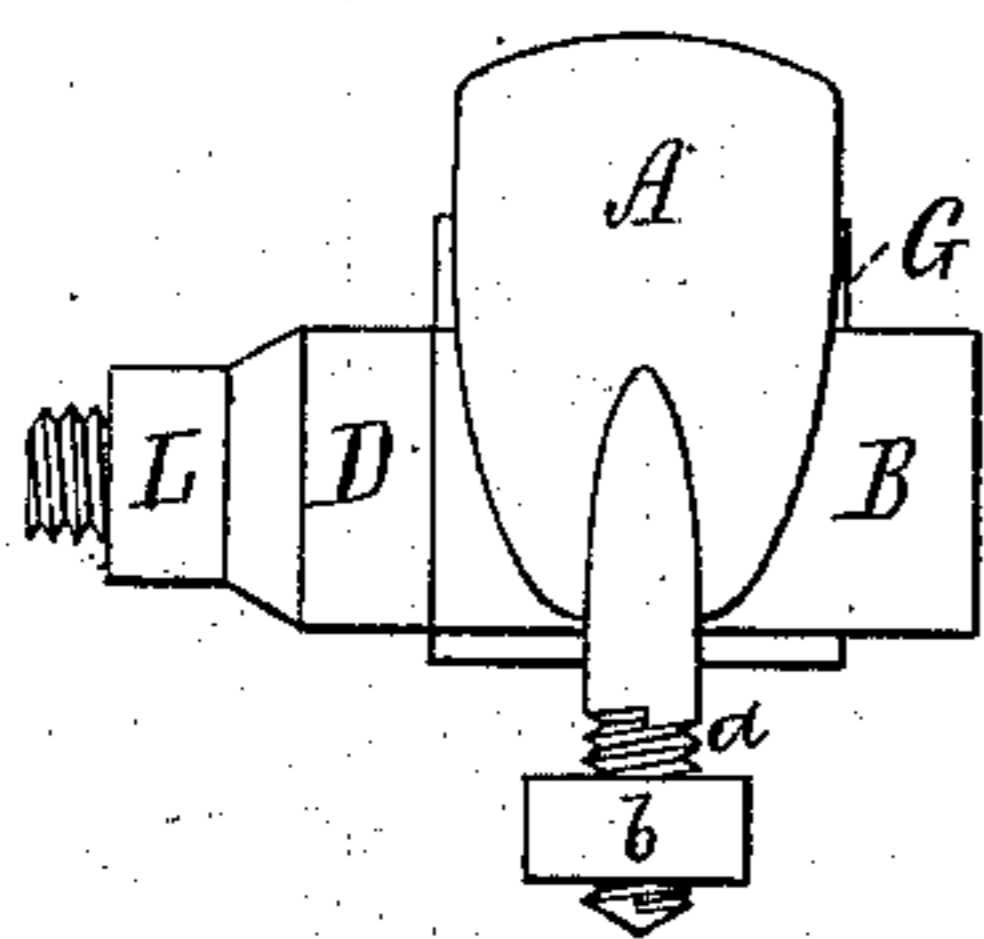


Fig. 2.

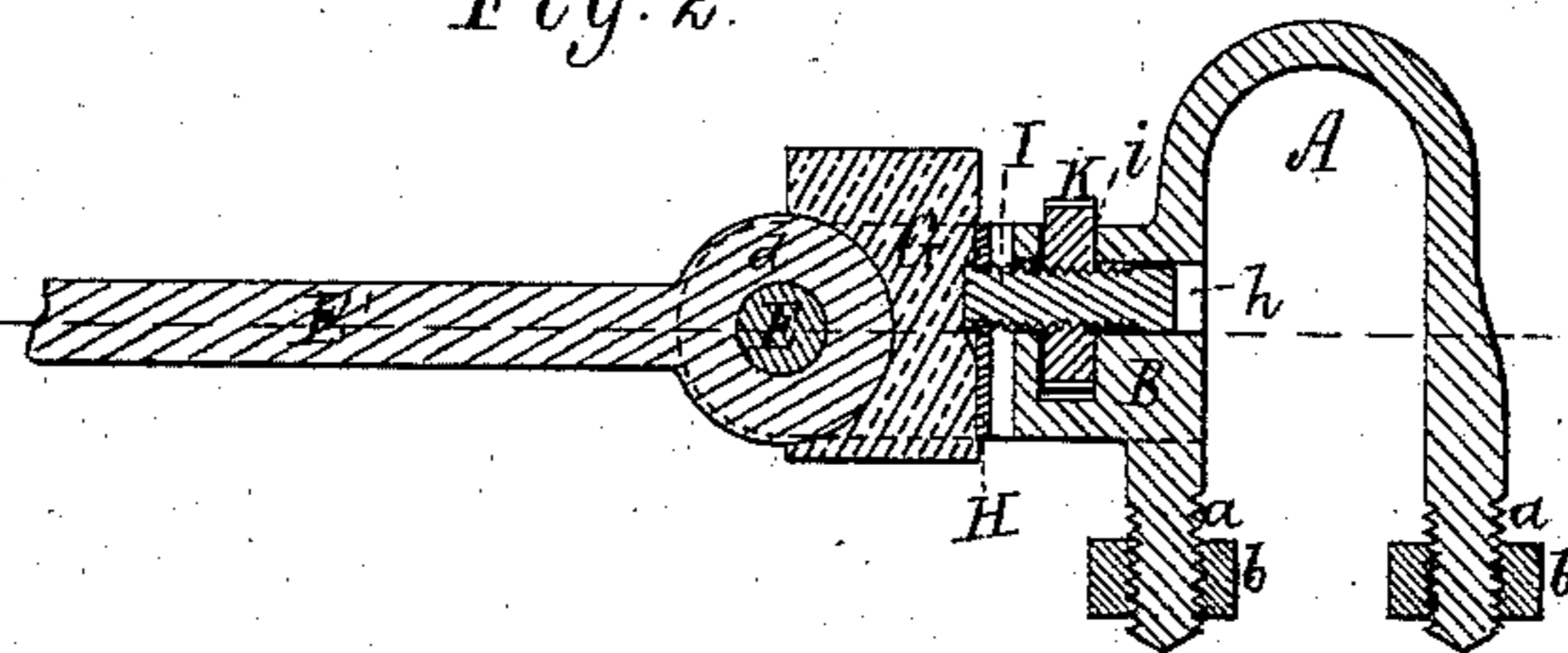


Fig. 3.

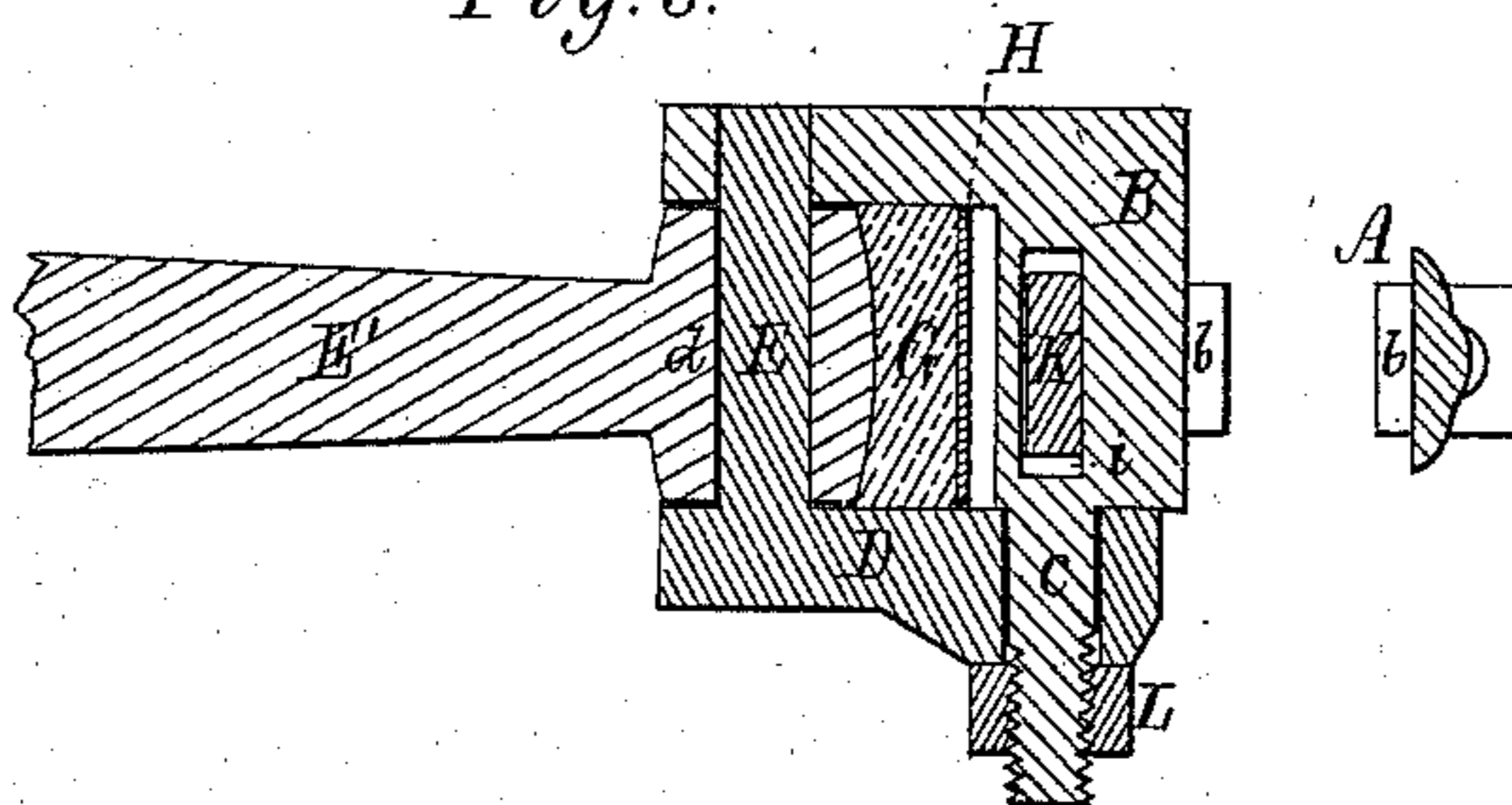
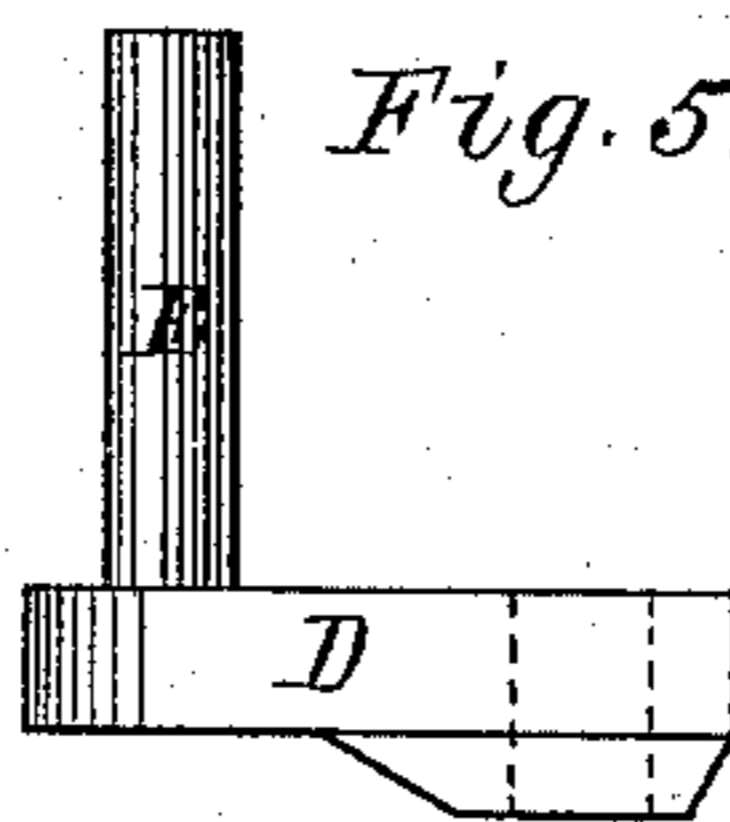


Fig. 5.



Witnesses.

*S. N. Piper*

*E. A. Pratt*

Inventor.

*Nelson A. Primus.*

*by R. W. Ledy att'y.*

# UNITED STATES PATENT OFFICE.

NELSON A. PRIMUS, OF SOMERVILLE, MASSACHUSETTS.

## THILL-COUPLING.

SPECIFICATION forming part of Letters Patent No. 274,656, dated March 27, 1883.

Application filed September 16, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, NELSON A. PRIMUS, of Somerville, in the county of Middlesex, of the State of Massachusetts, have invented a new and useful Improvement in Carriage - Thill Couplings; and I do hereby declare the same to be described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a top view, Fig. 2 a vertical and longitudinal section, and Fig. 3 a horizontal and longitudinal section, of a thill-coupling embodying my invention, the nature of which is duly defined in the claims hereinafter presented. Fig. 4 is an end elevation of it. Fig. 5 is a top view of the journal and its carrier, as hereinafter described.

In the said drawings, A denotes an ordinary thill-clip, provided with screws *a a* and nuts *b b*, and having projecting from it a right-angled-shaped bearing-piece, B, which at its inner end is provided with a tenon, C, having a screw, *c*, extending from it, in manner as represented. This tenon goes through a journal-carrier, D, provided with a cylindrical journal, E, extended from it at a right angle, and going through the cylindrical head *d* of a thill-coupling iron, E', and into the bearing-piece B. This coupling-iron turns freely on the journal and against an elastic block, G, of india-rubber, arranged with it and in the bearing-piece B, in manner as represented. At its rear the block G rests against an adjustable bearing-plate, H, provided at its middle with a screw, I, that extends from it in manner as represented, and goes into a hole, *h*, in the bearing-piece B. Arranged within a mortise, *i*, made in the bearing-piece B, and screwed upon the screw I, is a nut, K.

On revolving the nut one way upon the screw the plate H will be forced against the block G

and crowd it firmly against the thill-iron head, which, by turning against the block, is prevented from rattling on the journal. The carrier is held in place not only by the journal, but by a nut, L, screwed on the screw *c*, such nut serving to force the carrier against the block G. This block, by its elasticity, operates to keep both of the nuts K and L from accidentally working loose or turning upon their screws.

From the above it will be seen that as the elastic block G may become worn by the thill-iron head it (the said block) may be forced up to the said head by the nut; also, that the separation of the thill or connecting of it with the carriage can, by the above described coupling, be effected very easily and expeditiously.

I claim as my invention—

1. The combination of a clip and bearing-piece B, provided with the screw-tenon C, extending from it, as shown, with the journal-carrier D and the journal E, arranged as represented, such carrier having the screw-tenon extending through it, and also having the journal projected within the bearing-piece, and all being substantially as represented.

2. The combination of the bearing-plate H, its screw I, and nut K, with the bearing-piece B, and with the carrier D and the journal E, arranged with and adapted to the bearing-piece substantially in manner as set forth, the said plate H being to operate, as described, against the elastic or rubber block G, placed against the thill-iron head and in the bearing-piece and against the plate H, in the manner as specified.

NELSON A. PRIMUS.

Witnesses:

R. H. EDDY,  
E. B. PRATT.