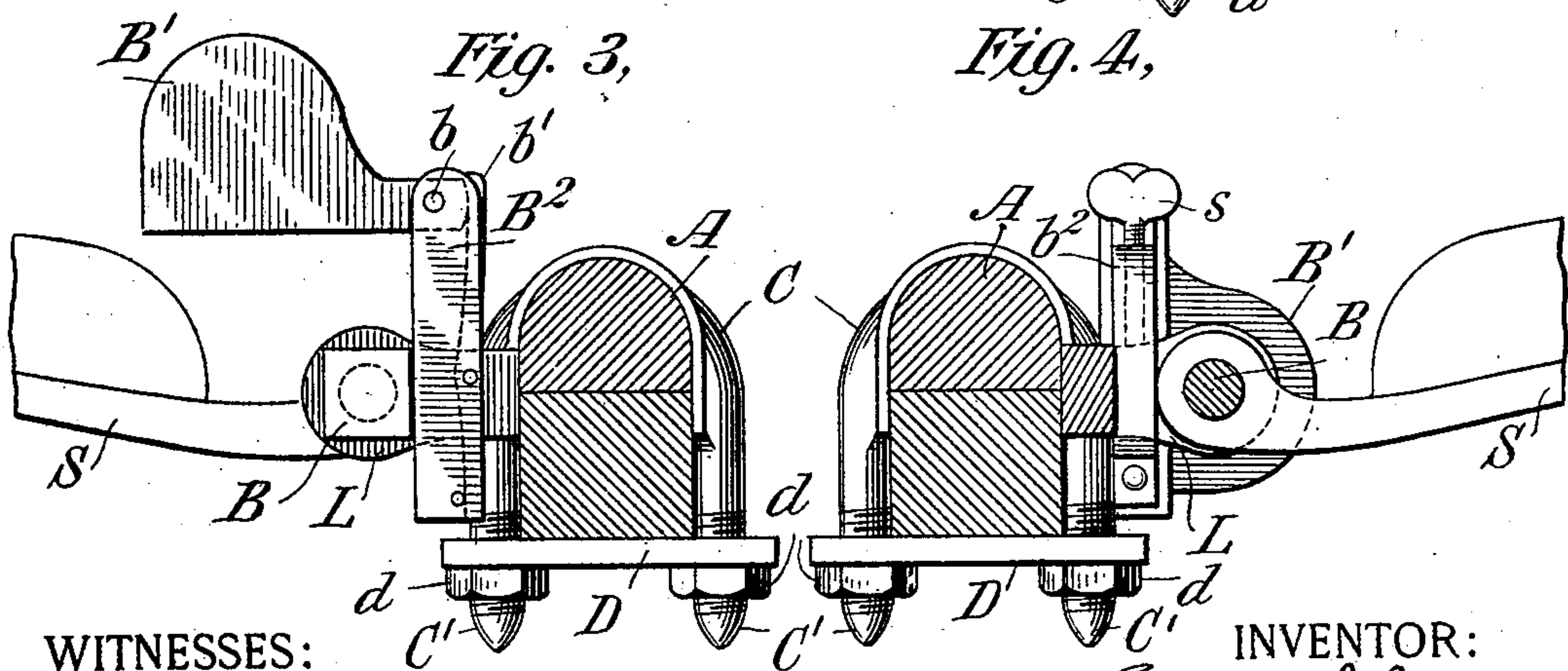
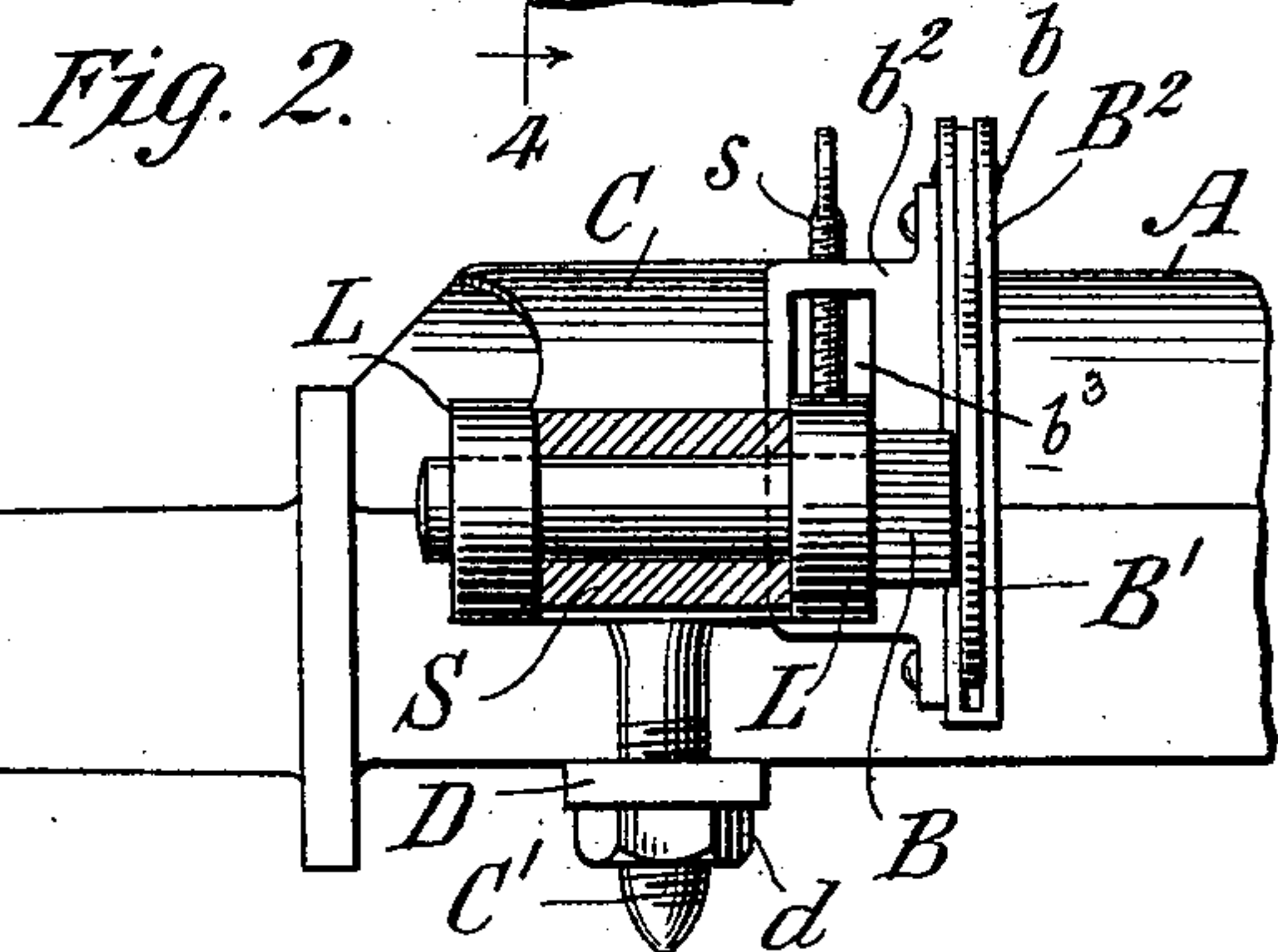
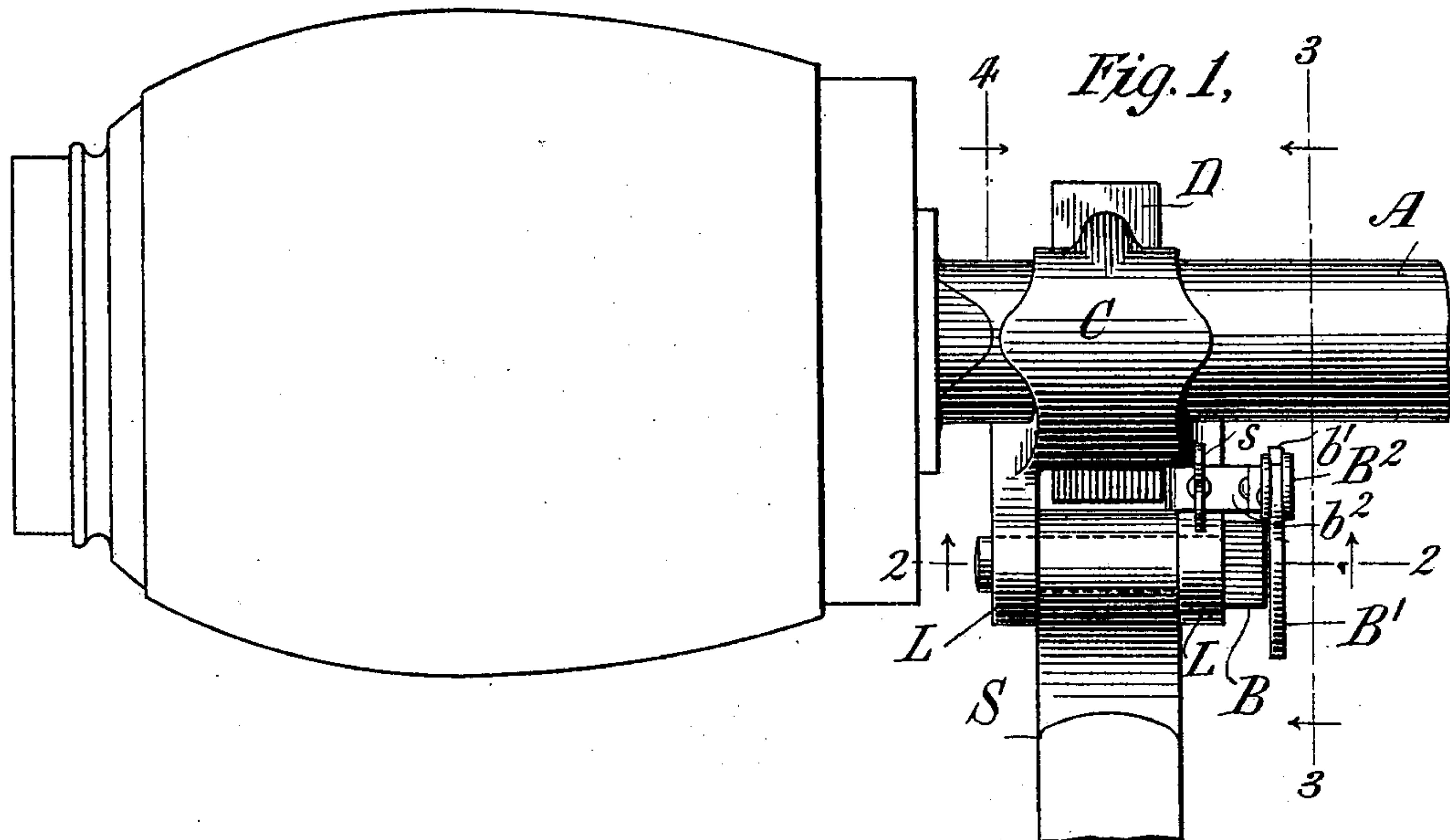


(No Model.)

E. I. MEAD.
THILL COUPLING.

No. 592,638.

Patented Oct. 26, 1897.



WITNESSES:

G. E. Ashley
H. W. Lloyd.

INVENTOR:

Edward I. Mead,
By his Attorney
Delville H. Lyon.

UNITED STATES PATENT OFFICE.

EDWARD I. MEAD, OF MAMARONECK, NEW YORK, ASSIGNOR OF ONE-HALF
TO DE WITT H. LYON, OF PORT CHESTER, NEW YORK.

THILL-COUPLING.

SPECIFICATION forming part of Letters Patent No. 592,638, dated October 26, 1897.

Application filed June 24, 1896. Serial No. 596,697. (No model.)

To all whom it may concern:

Be it known that I, EDWARD I. MEAD, a citizen of the United States of America, and a resident of Mamaroneck, in the county of Westchester and State of New York, have invented a new and useful Improvement in Thill-Couplings, of which the following is a specification.

My invention relates to thill-couplings, and its object is to provide improved means for holding in place the jack-bolts by which the thill-irons are secured to the clips.

The invention consists in the novel construction and combination of parts herein-
after fully described and claimed.

In the accompanying drawings, Figure 1 is a plan view of a thill-coupling constructed in accordance with my invention. Fig. 2 is a longitudinal section on the line 2 2, Fig. 1. Fig. 3 is a transverse section on the line 3 3, Fig. 1. Fig. 4 is a similar view on the line 4 4, Fig. 1.

In the said drawings the reference-letter A designates the axle of a vehicle, and C the clip thereof, formed with the usual screw-threaded ends C', with which engages the plate D, held in place by nuts d. These clips are formed with forwardly-extending apertured lugs L L, through which passes the headed jack-bolt B. This bolt also passes through the thill-iron S. The parts so far described may be of any ordinary or suitable construction, as they form no part of my present invention.

Secured to the inner lug L, at the inner side thereof, are two vertical arms B², parallel to each other, with a small space therebetween, and pivoted to the upper ends of these arms is a blade B'. These arms are provided with a knife-spring b', which engages with the inner end of said blade and holds it in an open or closed position, like an ordinary pocket-

knife. Secured to inner arm B² is an inwardly-extending plate b², formed with a rectangular opening b³, through which the said inner lug projects. Passing through the upper part of this plate is a set-screw s, by which the same and the arms secured thereto are secured to and held in place on the clip.

In use after the jack-bolt has been passed through the lugs the blade B' is turned down, so as to lie just behind the head of the bolt, so that the bolt cannot be removed from the lugs until said blade is opened, as in Fig. 3, thus rendering the use of a nut on the opposite end of the bolt unnecessary.

The device can be readily applied to the ordinary thill-clips now in use without the necessity of taking off the wheel.

Having thus fully described my invention, what I claim is—

1. In a thill-coupling, the combination with the clip and the apertured lugs, of the vertical arms, the blade pivoted thereto, the inwardly-extending plate secured to one of said arms, having an opening therein through which one of said lugs passes and the set-screw passing through said plate and bearing upon said lug, substantially as described.

2. As an improved article a device for holding in place the jack-bolts of thill-couplings, consisting of the parallel arms, the blade pivoted thereto, the plate secured to one of said arms, having an opening therein and the set-screw passing through said plate into the opening, substantially as described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 18th day of June, 1896.

EDWARD I. MEAD.

Witnesses:

CHARLES ENGEL,
JAMES RAPELYE.