

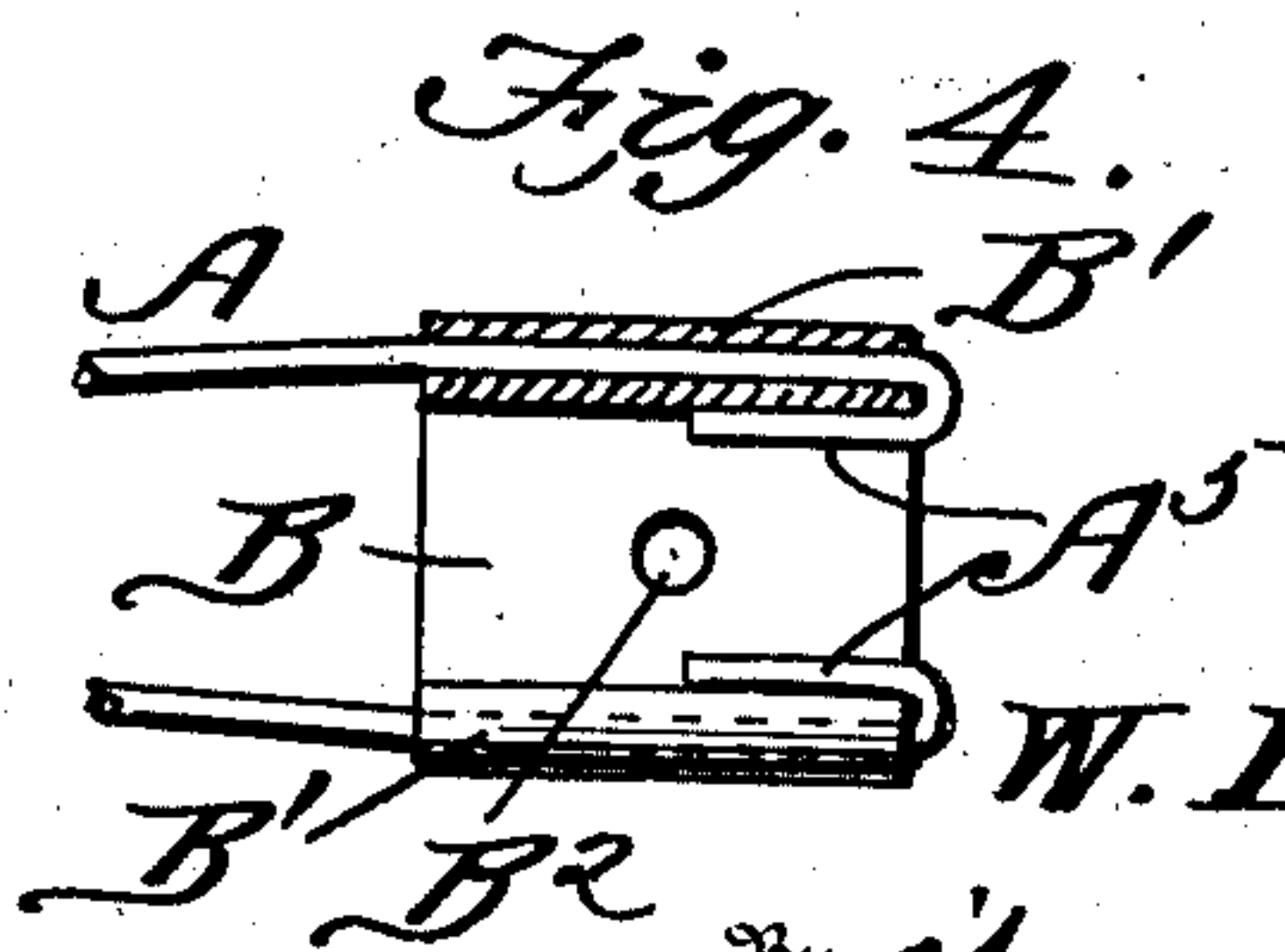
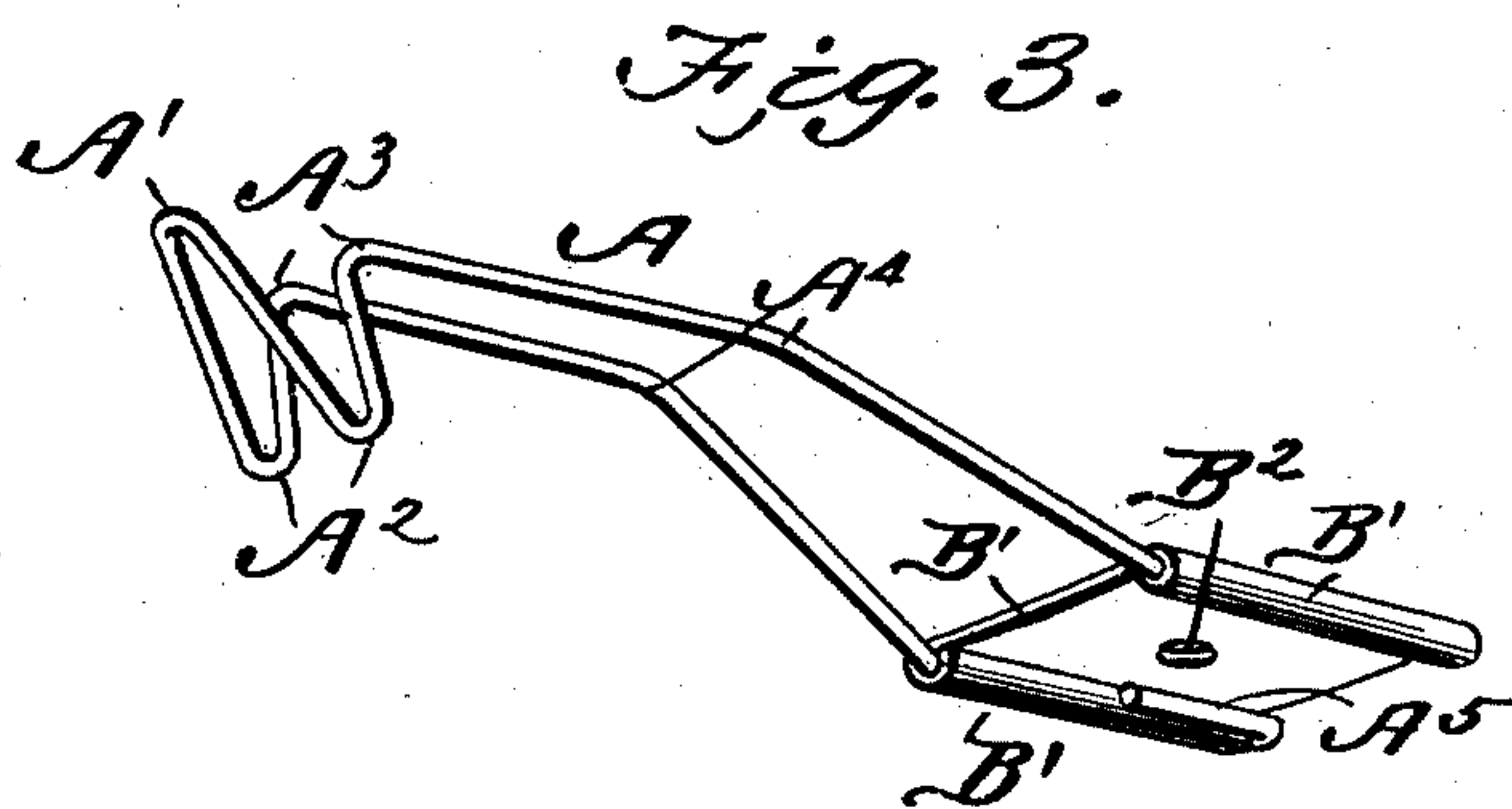
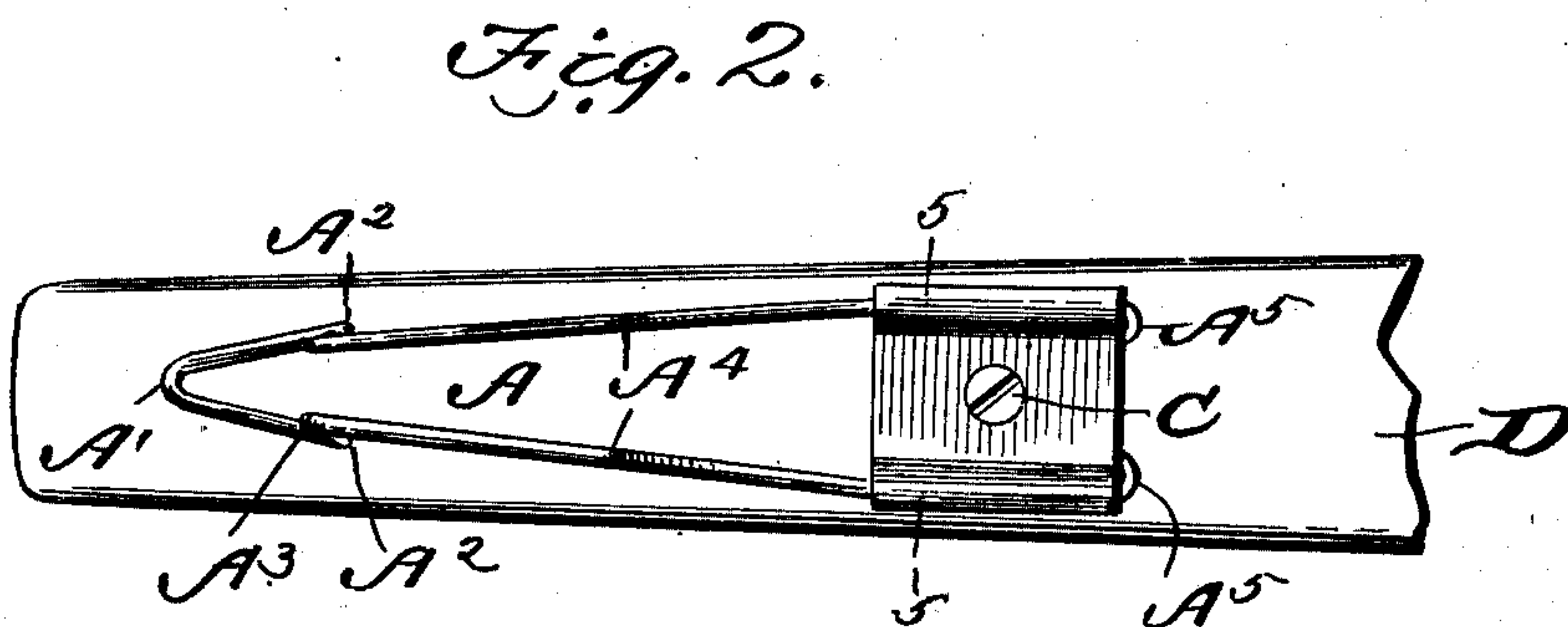
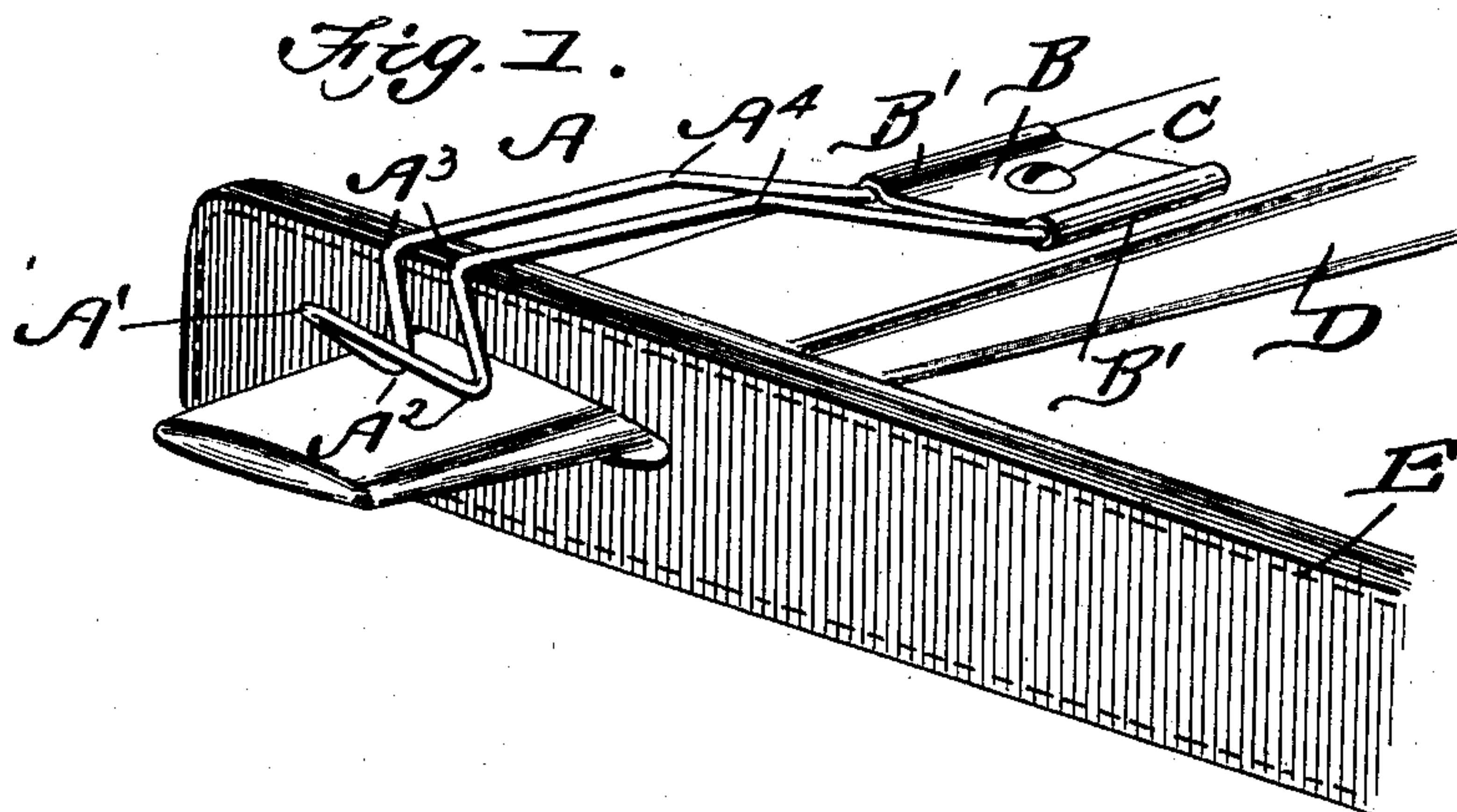
No. 719,521.

PATENTED FEB. 3, 1903.

W. F. SIMON.
TRACE HOLDER.

APPLICATION FILED JUNE 14, 1902.

NO MODEL.



Witnesses

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UNITED STATES PATENT OFFICE.

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TRACE-HOLDER.

SPECIFICATION forming part of Letters Patent No. 719,521, dated February 3, 1903.

Application filed June 14, 1902. Serial No. 111,732. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM FREDRICK SIMON, a citizen of the United States, residing at Galion, in the county of Crawford and State of Ohio, have invented a new and useful Improvement in Trace-Holders, of which the following is a specification.

This invention is an improved construction of trace-holder, the object being to provide an exceedingly cheap, simple, and efficient appliance which can be attached to any of the whiffletrees now in use for the purpose of securing the end of the trace thereto, thus avoiding the old-fashioned leather pin and also complicated structures for the purpose of accomplishing the same result.

With these objects in view the invention consists, essentially, in the employment of a spring-wire loop fastened at its ends to the upper face of the whiffletree by means of a plate, said loop being shaped to hold the trace in place upon the whiffletree, and the invention consists also in certain details of construction and novelties of combination, all of which will be fully described hereinafter and pointed out in the claims.

In the drawings forming part of this specification, Figure 1 is a perspective view illustrating a trace-holder constructed in accordance with my invention and also showing the operation thereof. Fig. 2 is a top plan view. Fig. 3 is a perspective view of the holder detached from the whiffletree. Fig. 4 is a detail sectional view, partly in elevation, and illustrating the manner of connecting the wire to the plate. Fig. 5 is a transverse section taken on the line 5 5 of Fig. 2.

In carrying out my invention I employ a piece of spring-wire A, which is bent centrally upon itself, as shown at A'. Portions of the wire are then bent again at A² and then at A³, thereby providing an upwardly-inclined portion and a downwardly-extending shoulder portion. Portions of the wire are then made to diverge slightly, and at A⁴ they are given a slight bend, and the ends of the wire are inserted in the rolled edges B' of the plate B, the extreme ends A⁵ of the wire being

bent inwardly and pressed alongside the inner edge of the said roll B', as most clearly shown in Figs. 3 and 4. The plate B has an opening B², through which a screw C is passed for the purpose of securely fastening the holder to the upper side of the whiffletree D. When the holder is secured upon the whiffletree, the bends A² will rest upon the whiffletree adjacent to its end, and the upwardly-inclined portion A' will serve to guide the trace E beneath the downwardly-projecting portion of the wire between the bends A² and A³, the main portions of the wire being held away from the whiffletree a sufficient distance to permit the trace to have a limited play upon the end of the whiffletree. The rolled edges of the plate B rest securely upon the upper face of the whiffletree, and thereby prevent turning movement upon the said whiffletree. The plate being secured, it is obvious that the holder is also secured. Being constructed of spring-wire, it will readily yield when the trace is pressed over the end of the whiffletree, and after the trace has passed beyond the bends A² it is obvious that it will be impossible for the trace to become disengaged except by lifting the end of the spring-loop.

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

1. A trace-holder comprising a spring-wire loop bent upwardly to provide a guiding portion and having a downwardly-extending portion, and the plate having rolled edges, the ends of the wire loop being secured in the said rolled edges, substantially as specified.

2. A trace-holder comprising a plate having rolled edges, and the spring-wire bent centrally upon itself at A', and bent also at A² and A³, the ends of the wire being inserted in the rolled edges of the plate and folded back upon the inner sides of said rolled edges, substantially as specified.

WILLIAM FREDRICK SIMON.

Witnesses:

WILL RETTIG,

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