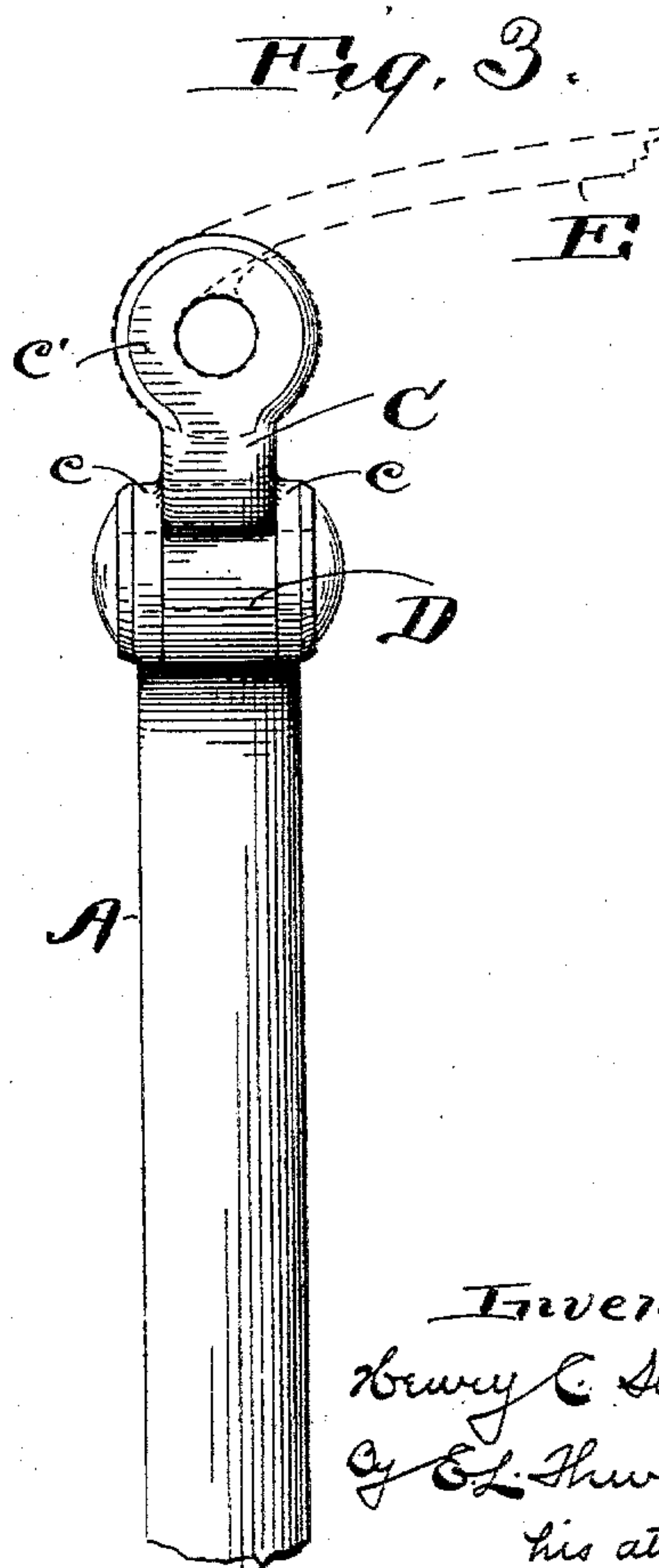
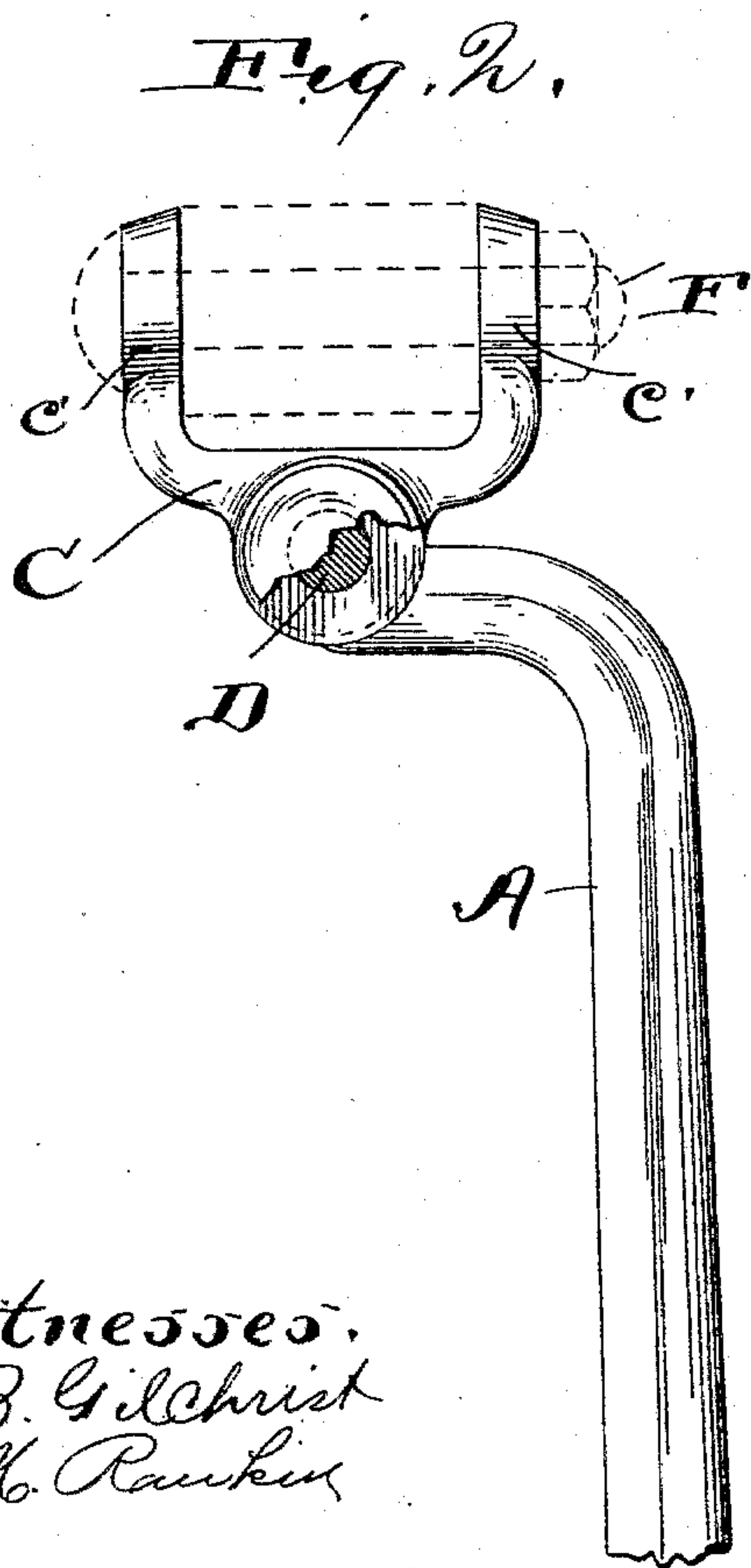
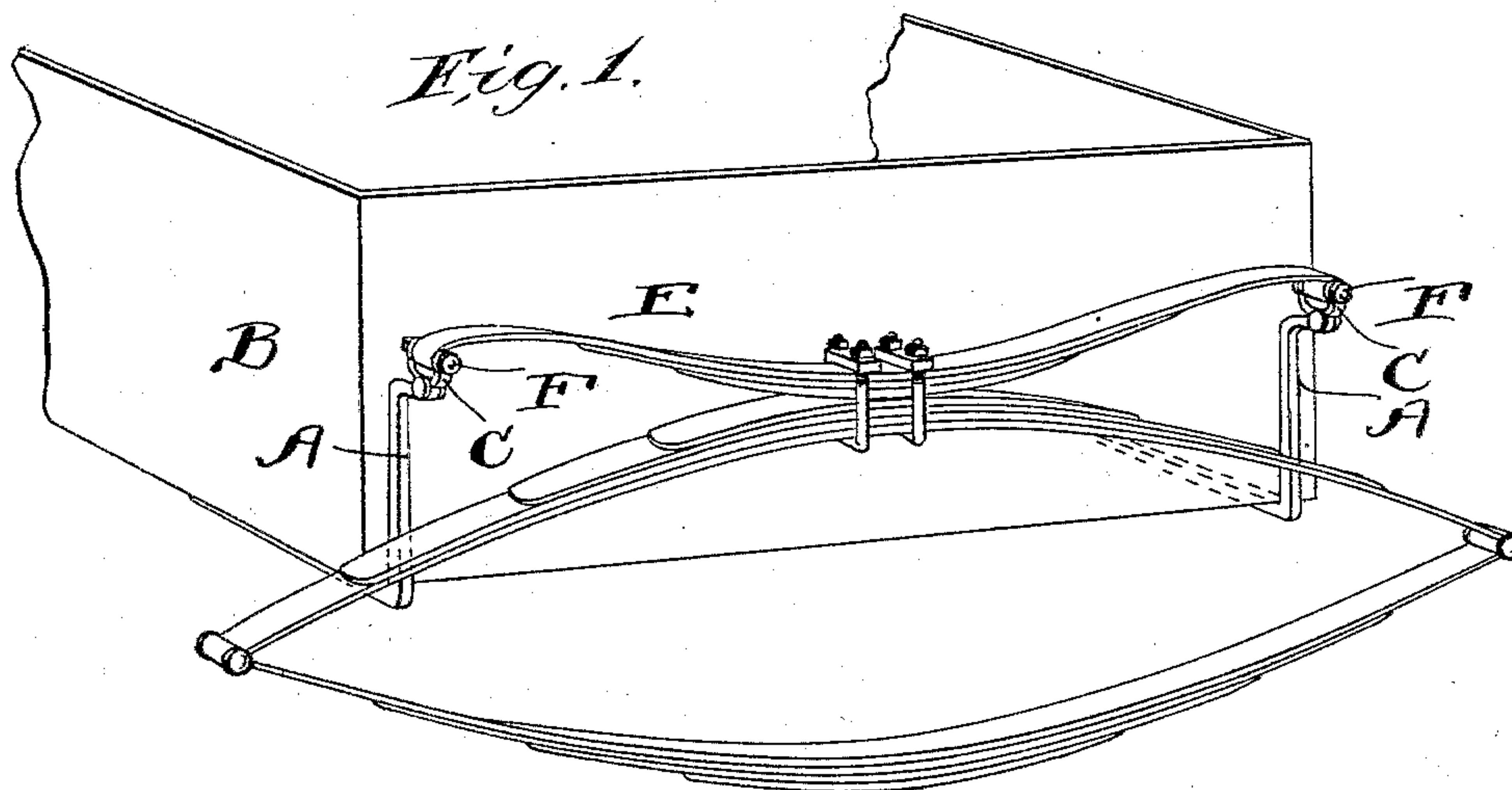


(No Model.)

H. C. SWAN.
BODY LOOP FOR VEHICLES.

No. 597,304.

Patented Jan. 11, 1898.



Witnesses.
E. B. Gilchrist
A. M. Rankin

Inventor:
Henry C. Swan
By E. L. Thurston
his attorney

UNITED STATES PATENT OFFICE.

HENRY C. SWAN, OF OSHKOSH, WISCONSIN.

BODY-LOOP FOR VEHICLES.

SPECIFICATION forming part of Letters Patent No. 597,304, dated January 11, 1898.

Application filed July 27, 1896. Serial No. 600,708. (No model.)

To all whom it may concern:

Be it known that I, HENRY C. SWAN, a citizen of the United States, residing at Oshkosh, in the county of Winnebago and State of Wisconsin, have invented certain new and useful Improvements in Body-Loops for Vehicles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The object of my invention is to provide simple, neat, and effective means for attaching the end of body-loops to springs located and used in place of the ordinary spring-bars; and the invention consists in the construction and combination of parts hereinafter described and claimed.

In the drawings, Figure 1 is a perspective view of one end of a wagon-body, the spring, body-loops, and the connection between the body-loops and the spring. Fig. 2 is a side view of the end of one of the body-loops and the shackle. Fig. 3 is a front view of said end of a shackle.

Referring to the parts by letters, A A represent the body-loops, and B the wagon-body.

C represents a shackle on the end of each body-loop. The shackle may have two perforated ears *c c*, between which the flattened perforated end of the body-loop may be secured by a bolt or rivet D. The shackle may, however, be formed integral with the end of said body-loop. In this latter case the ears *c c* are preferably finished on their sides to represent the heads of bolts or rivets. Each shackle is provided with two perforated ears *c' c'*, which embrace the eye *e* on the end of the spring E. A bolt F passes through said perforated ears and said eye and thereby

forms a pivoted connection between said parts. This direct connection between the body-loops and spring holds said loops in the proper position relative to the spring. The body-loops may swing freely on their pivots in the eyes of the spring, but they do not bind and they are not subjected to any unnatural and injurious strain when the spring becomes depressed.

It will be noticed that the bolt D when used is at right angles to the pivot-bolt F, and therefore the shackle is rigid as far as any inward or outward movement under the action of the spring is concerned. Whether the shackle is made integral with the end of the body-loop or bolted thereto, as shown, depends upon convenience of construction and does not affect the essential operation.

Having described my invention, I claim—

In a wagon-body, the body-loops A having their ends turned at right angles and in opposite directions, the upper ends being provided with ears *c*, combined with the shackles C which are provided at their upper ends with the ears *c'*, and which have their lower ends inserted between the ears *c* upon the body-loops; the spring E, and the bolt D which passes through the upper end of the body-loops, and the lower ends of the shackles, and the bolt F which passes through the ears *c'* of the body-loops at right angles to the bolt D, and to which bolt F, the ends of the spring E are fastened in between the ears *c*, substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

HENRY C. SWAN.

Witnesses:

E. L. THURSTON,
E. B. GILCHRIST.