

W. B. CROSBY.

RIDING-SADDLE.

No. 174,492.

Patented March 7, 1876.

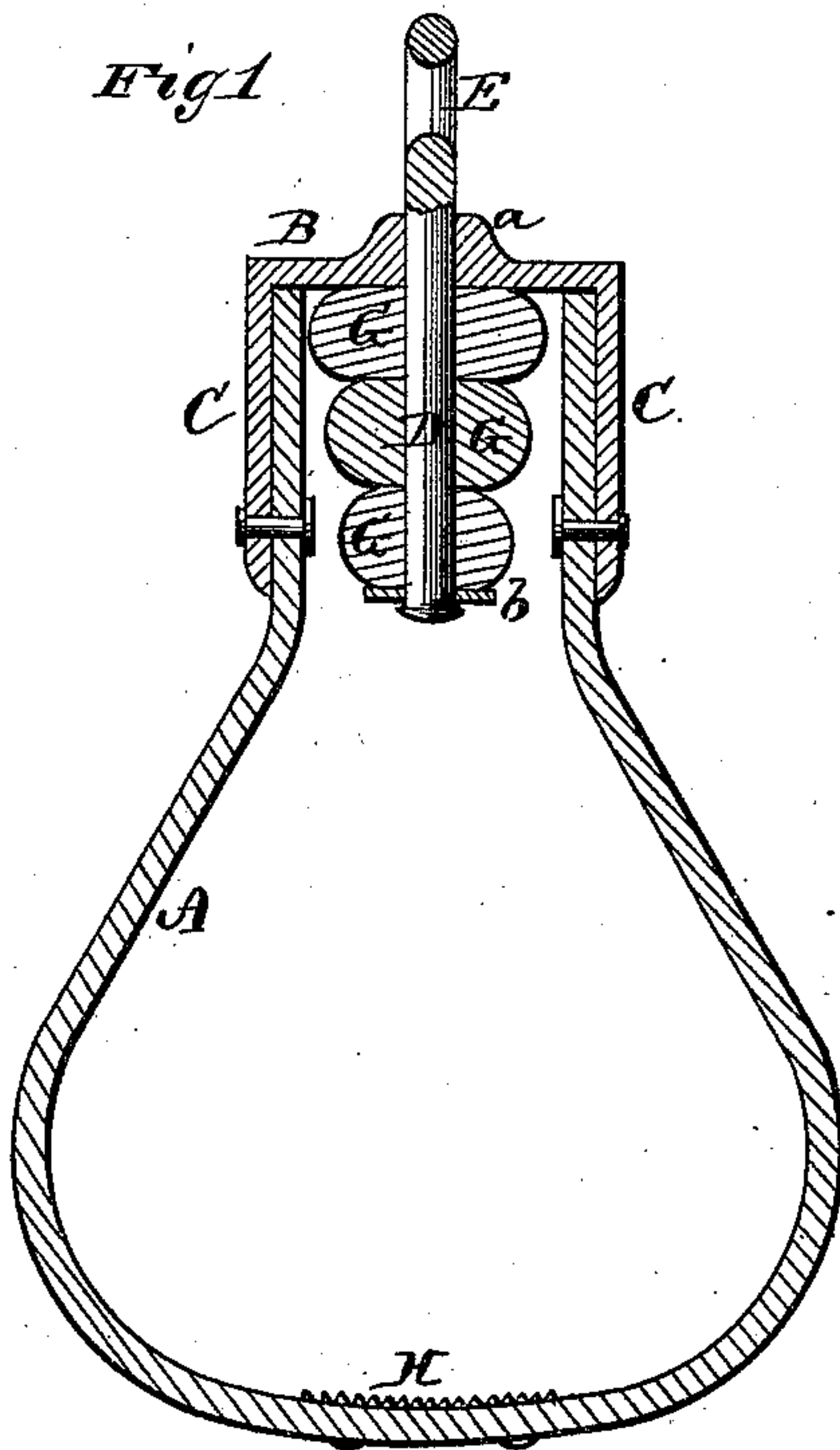
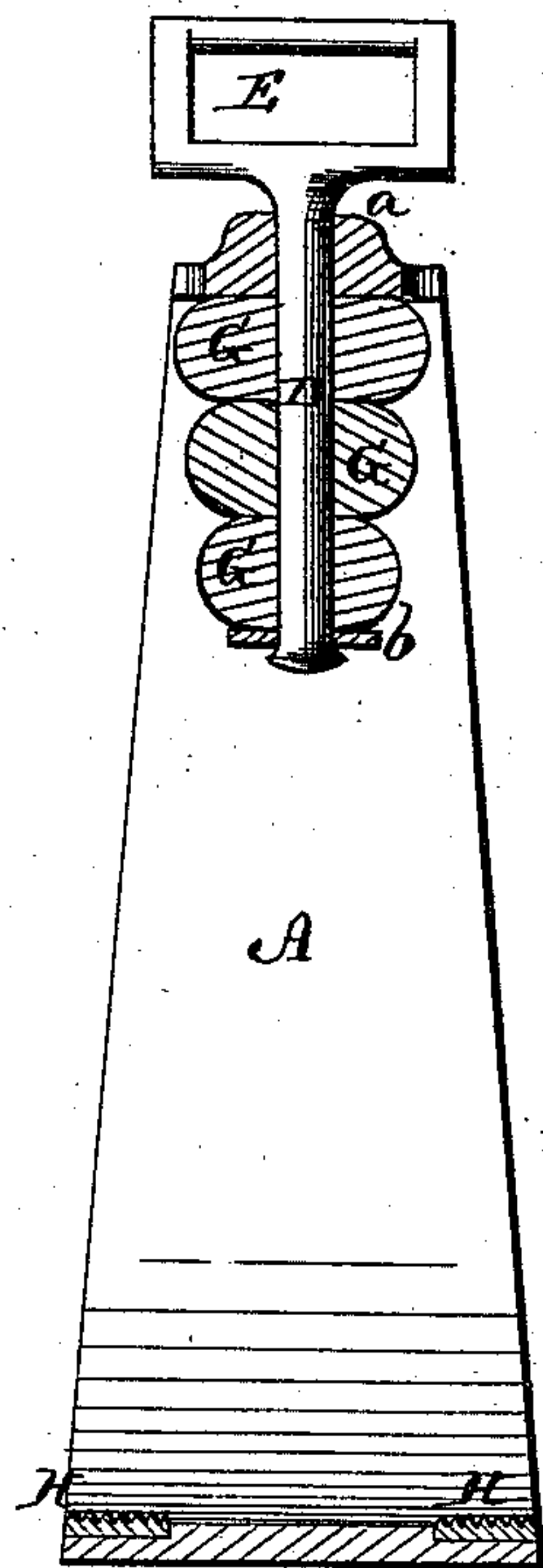


Fig 2



WITNESSES
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UNITED STATES PATENT OFFICE.

WARREN B. CROSBY, OF CHATTANOOGA, TENNESSEE.

IMPROVEMENT IN RIDING-SADDLES.

Specification forming part of Letters Patent No. 147,492, dated March 7, 1876; application filed November 18, 1875.

To all whom it may concern:

Be it known that I, WARREN B. CROSBY, of Chattanooga, in the county of Hamilton and in the State of Tennessee, have invented certain new and useful Improvements in Stirrups; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

My invention relates to wooden stirrups; and it consists in the construction of the clamp or clasp at the upper end of the stirrup with the spring-connection for connecting the same to the stirrup-strap; and it also consists in one or more corrugated metal plates inserted in and fastened to the wood for the foot to rest on, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a longitudinal section of a wooden stirrup embodying my invention. Fig. 2 is a cross-section of the same.

A represents an ordinary wooden stirrup constructed in any of the known and usual ways. Across the upper end of the stirrup A is a metal plate, B, provided with lips or flanges C C at its ends, which extend a suitable distance downward along the sides of the stirrup, and are riveted thereto. In the center of the plate B is formed a nipple, *a*, to form a wide bearing, and prevent any side movement for the rod or spindle D passing through the same. On the upper end of this spindle is formed a loop, E, for the attach-

ment of the stirrup-strap. On the rod or spindle D, below the plate B, is placed a series of rubber balls or springs, G G, and a washer, *b*, is riveted on the end of the rod to hold them thereon. These rubber balls or springs are graduated, as shown—that is, they are made of different size, weight, and thickness, the largest and heaviest being immediately below the plate B, then the next largest, and so on, the smallest and lightest being at the lower end of the rod.

By these means the light spring will operate first, and then gradually the heavier springs come into play, so that the stirrup will answer both for light and heavy riders, and the springs adjust themselves to either.

In the lower part of the stirrup A, along each edge, is a plate, H, corrugated on its upper surface, so as to prevent the foot from slipping. These plates are let into the wood and fastened by rivets or other suitable means.

I am aware that the use of a spring in connection with a stirrup is, broadly, not new.

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

The combination, with a wooden stirrup, A, of the clamp or clasp B C, with nipple *a* formed thereon, the rod D with loop E, and the rubber balls or springs G G, of different sizes and thicknesses, all constructed substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 4th day of October, 1875.

WARREN B. CROSBY.

Witnesses:

ED. MULLERY,
JOHN F. GALLAHER.