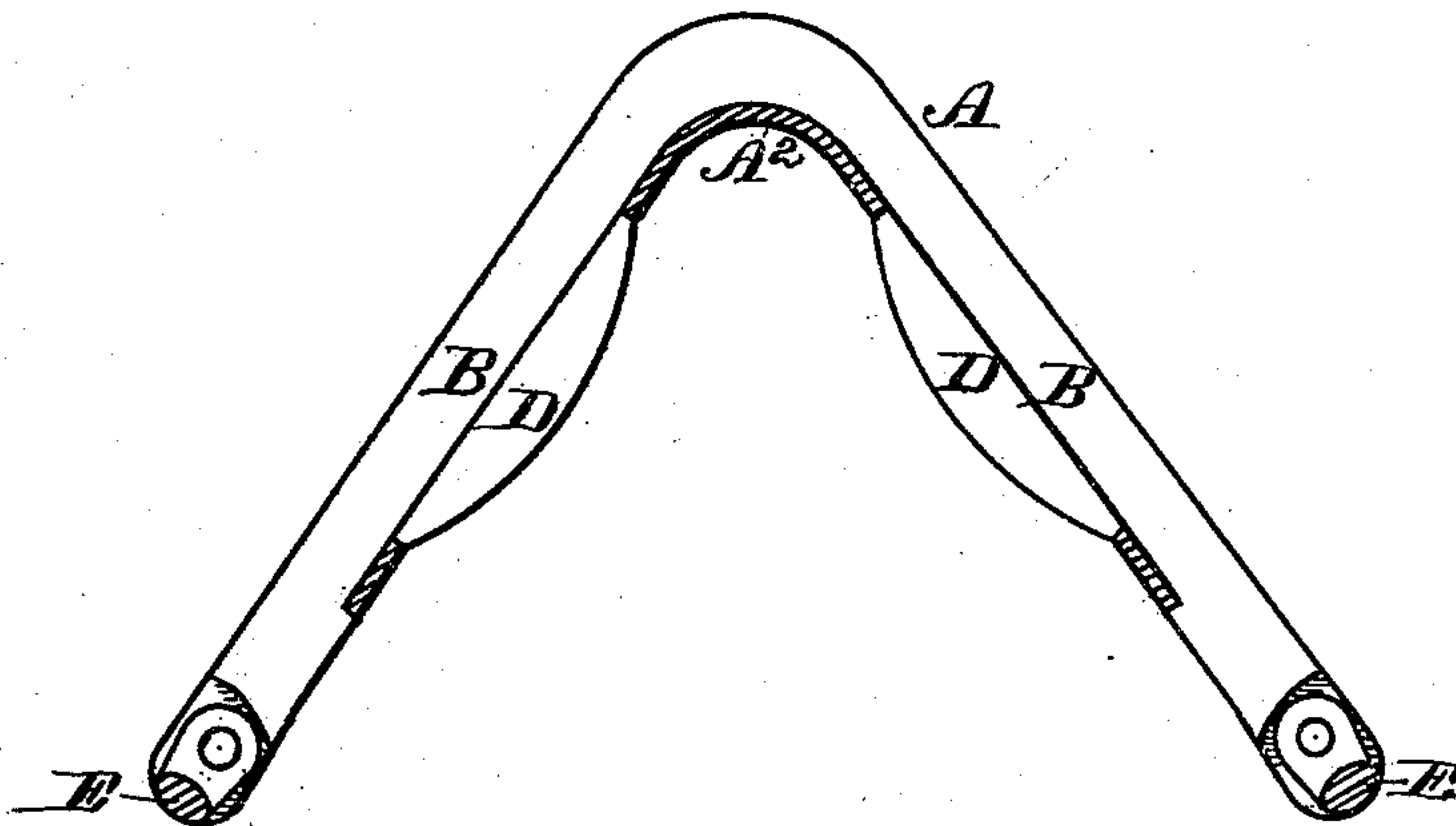
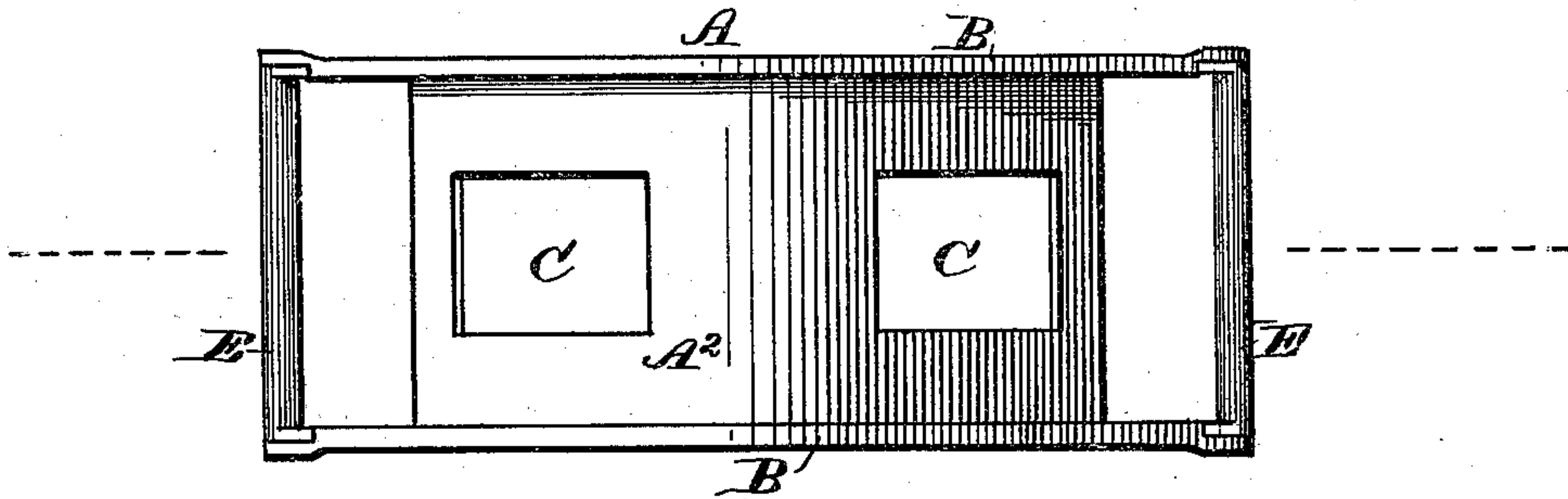


A. GRABNER.
HARNESS.

No. 174,418.

Patented March 7, 1876.



WITNESSES:

Jas F. Duhamel,

Thomas. Byrne,

INVENTOR:

Andrew Grabner.

PER

H. S. Abbott.

ATTORNEY.

UNITED STATES PATENT OFFICE.

ANDREW GRABNER, OF ADRIAN, MICHIGAN.

IMPROVEMENT IN HARNESS.

Specification forming part of Letters Patent No. 174,418, dated March 7, 1876; application filed January 29, 1876.

To all whom it may concern:

Be it known that I, ANDREW GRABNER, of Adrian, in the county of Lenawee and State of Michigan, have invented certain new and useful Improvements in Breast-Strap Slides for Harness, of which the following is a specification:

The object of this invention is to provide a breast-strap slide for harness, which, while protecting the strap from the wear of the neck-yoke ring or pole-chain ring, shall at the same time possess other advantages, herein-after mentioned.

In the accompanying drawing, forming part of this specification, A represents the slide complete, having a triangular shape. B B are upper and lower flanges, forming the top and bottom of an external recess or groove for the embedding of the strap. C C are openings through the web A² of the slide, which diminish its weight, and also afford a ready means of upsetting their edges or turning them into flanges or bars D D, which secure the ring of the pole-chain or neck-yoke between their forward ends, and there hold it, allowing the slide to vibrate upon the ring as upon a pivot. The vertical shifting-bars E E serve two purposes—one for the attachment to them of the hames-strap in light harness, instead of the strap passing entirely around the slide, and the other that of clamping or

holding the breast-strap within its bed between the flanges B B, when the said strap passes entirely around the slide.

The advantages arising from turning the flanges B B at right angles to the web A², and making the web a straight plane instead of curved, are as follows: The edges of the strap are preserved from wear which takes place when the flanges are rounded out of the web, and, if so rounded out, the strap will also be continually crowded out of its bed, and not lie snug therein, as is the case in the slide forming the subject of this invention.

Having thus fully described this improved breast-strap slide for harness, as of my invention I claim—

1. A breast-strap slide for harness, constructed with slots C C, which are provided with bars or flanges D D, as shown, for the purpose described.

2. The flanges B B, provided with transverse shifting-bars E E, eccentrically pivoted thereto, all substantially as and for the purpose described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

ANDREW GRABNER.

Witnesses:

J. W. HELME,
R. B. ROBBINS.