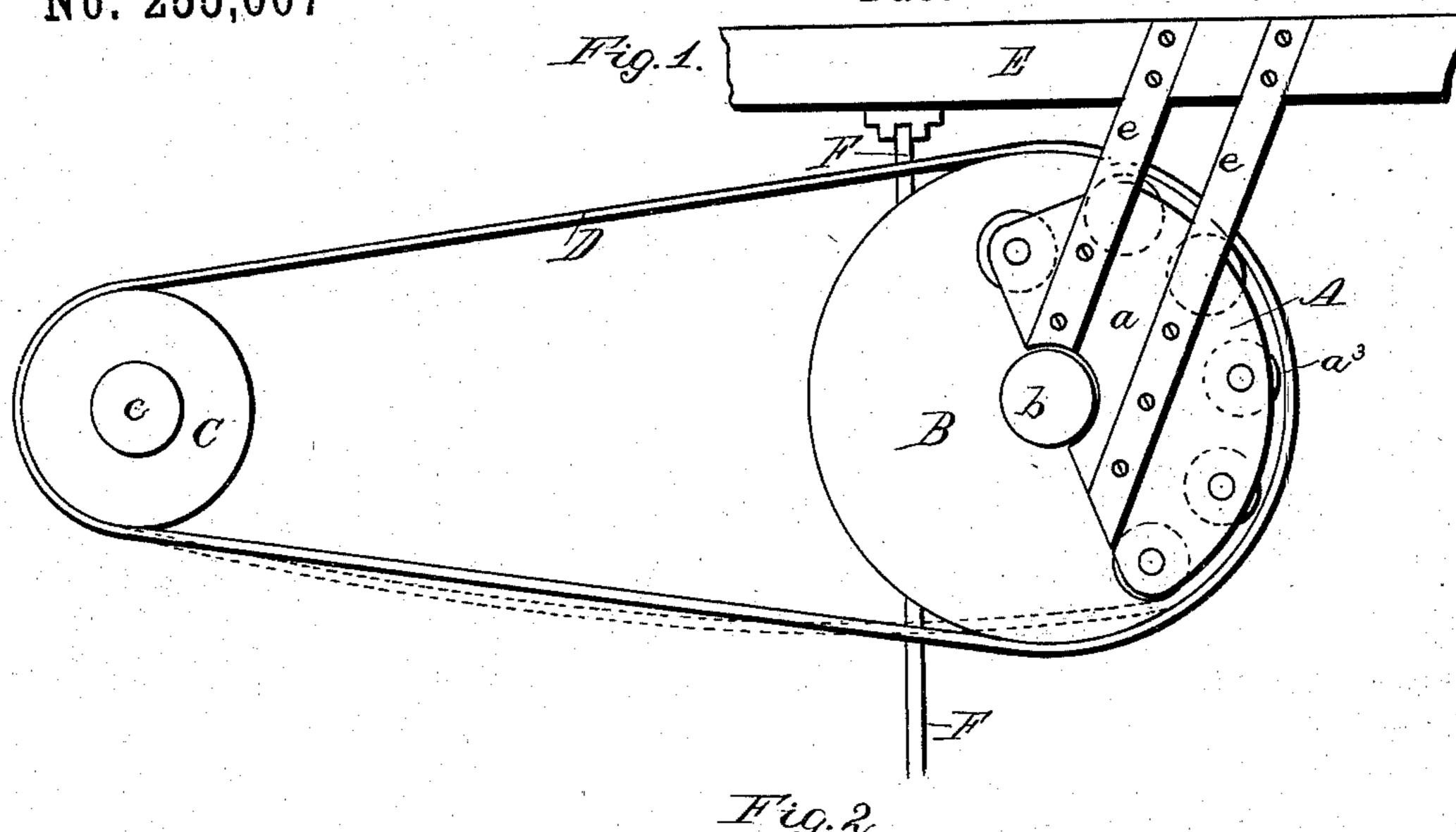
(No Model.)

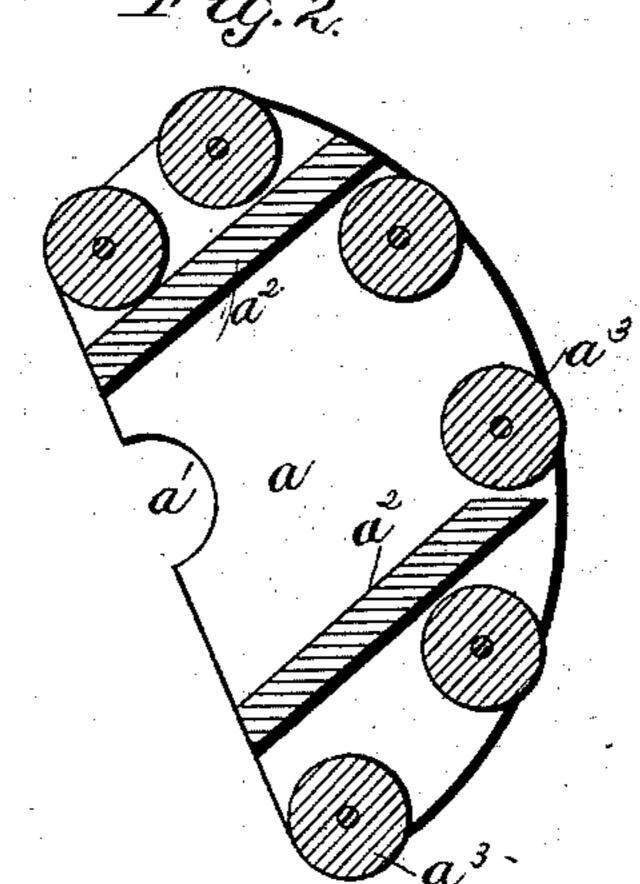
E. C. DURAND.

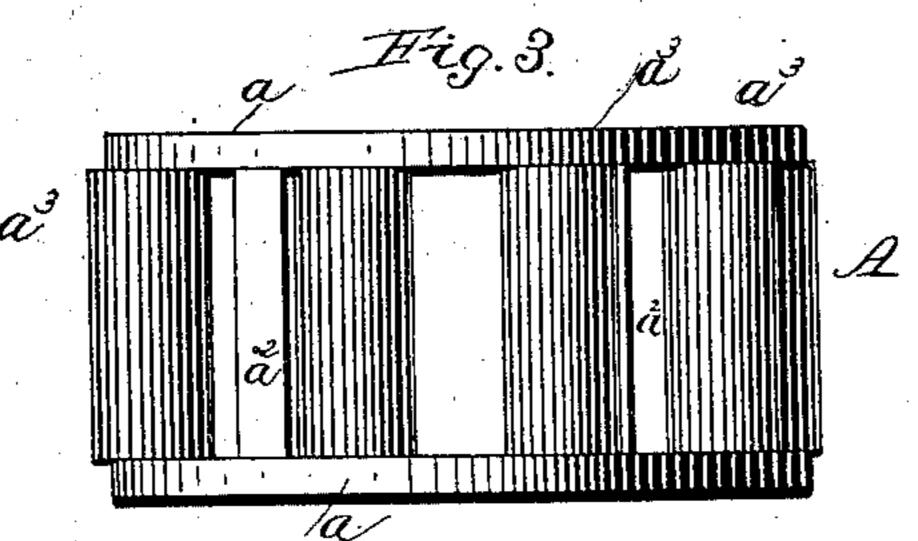
BELT SHIFTER.

No. 255,607

Patented Mar. 28, 1882.







Witnesses:

M. J. Orgovel

Edwin & Durand, & Homund a Gum.
Attorney.

UNITED STATES PATENT OFFICE.

EDWIN C. DURAND, OF GREENWICH, OHIO.

BELT-SHIFTER.

SPECIFICATION forming part of Letters Patent No. 255,607, dated March 28, 1882.

Application filed February 14, 1882. (No model.)

To all whom it may concern:

Be it known that I, EDWIN C. DURAND, a citizen of the United States, residing at Greenwich, in the county of Huron and State of Ohio, have invented certain new and useful Improvements in Belt-Shifters, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to belt-shifters; and it consists in the construction and arrangement of its several parts, as will be hereinafter fully set forth, and pointed out in the claims.

In the drawings, Figure 1 is a side elevation of the shifter applied, and Fig. 2 is a vertical longitudinal section, and Fig. 3 is a top plan view.

A is the shifter. It consists of the side pieces, a a, formed as shown, and having cut in their straight edges the semicircular recesses a' a', through which passes the pulley-shaft. They are secured together by the strips a^2 a^2 , as shown. Journaled between the outer portions of the strips and projecting above their edges are rollers a^3 .

B and C are working-pulleys on the shafts b c, and are connected by the belt D, as shown.

E is one of the ceiling-joists. The semicircular recesses a' are placed over the shaft b

and the pulley made secure in position by the braces ee, attached to it and to the joist E. 30 The rollers a^3 a^3 will be on a level with the periphery of the pulley B.

F is the shifting-bar, and by it the belt D is thrown from the pulley B onto the shifter.

In operation, when it is desired to shift the 35 pulley F, as the edges of the belt slip over onto the shifter its rollers a^3 will revolve on the belt and will prevent all "burning" or breaking of the leather. The braces e e will prevent the belt from slipping off the shifter.

What I claim is—
1. The shifter A, consisting of the side pieces, a a, formed as shown, secured together by the strips a^2 a^2 , and having journaled between them the pulleys a^3 , and adapted to be 45 secured to the joist E by the braces e e, sub-

stantially as shown and described. 2. The shifter A and its pulleys a^3 , in combination with the pulley B and shifting-bar F,

all arranged to operate as set forth.
In testimony whereof I hereby affix my signature in presence of two witnesses.

EDWIN C. DURAND.

Witnesses:

FRANK CARR, JNO. B. SMITH.