

(No Model.)

H. STENGEL.

SADDLE.

No. 363,487.

Patented May 24, 1887.

Fig. 1.

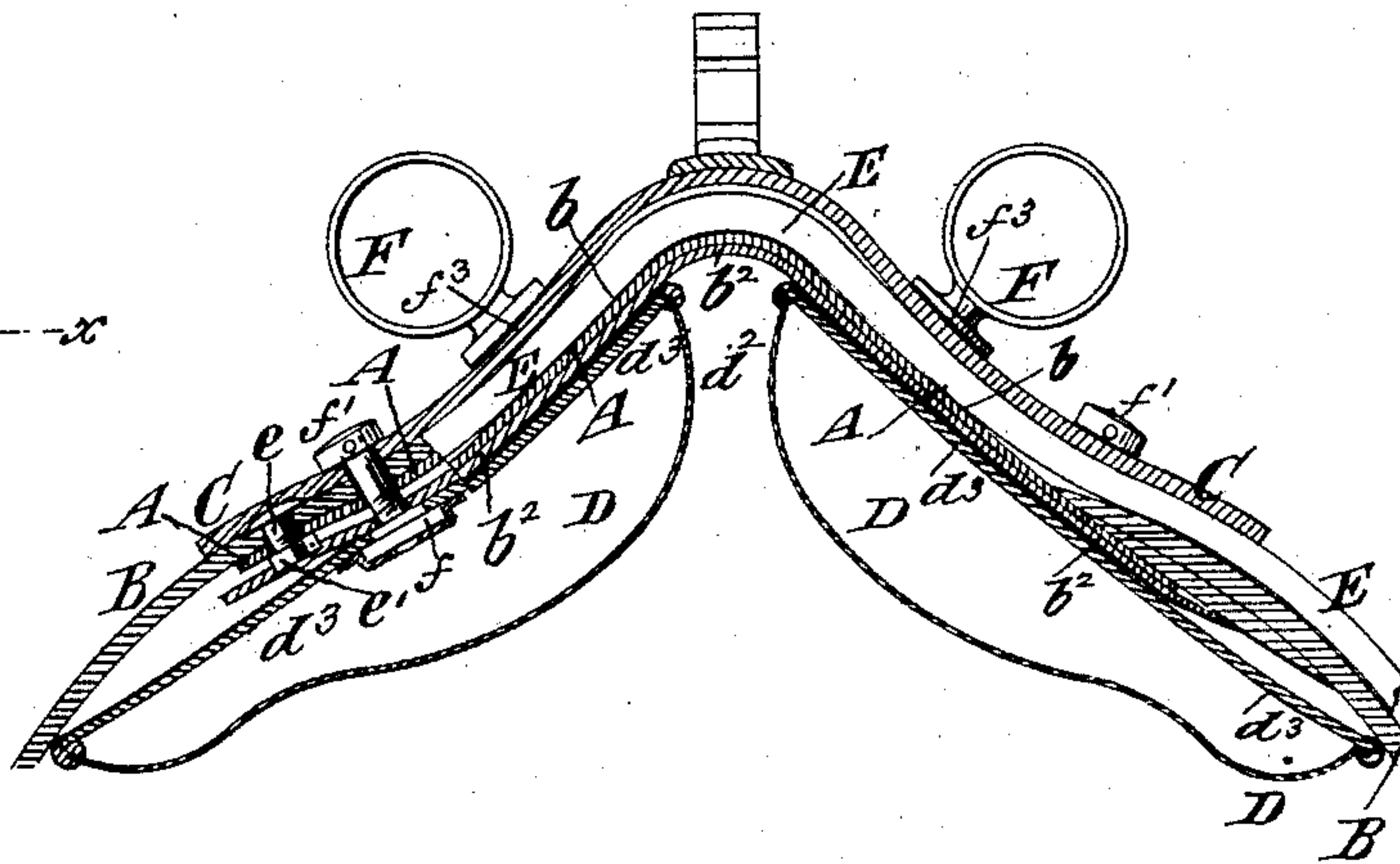


Fig. 2.

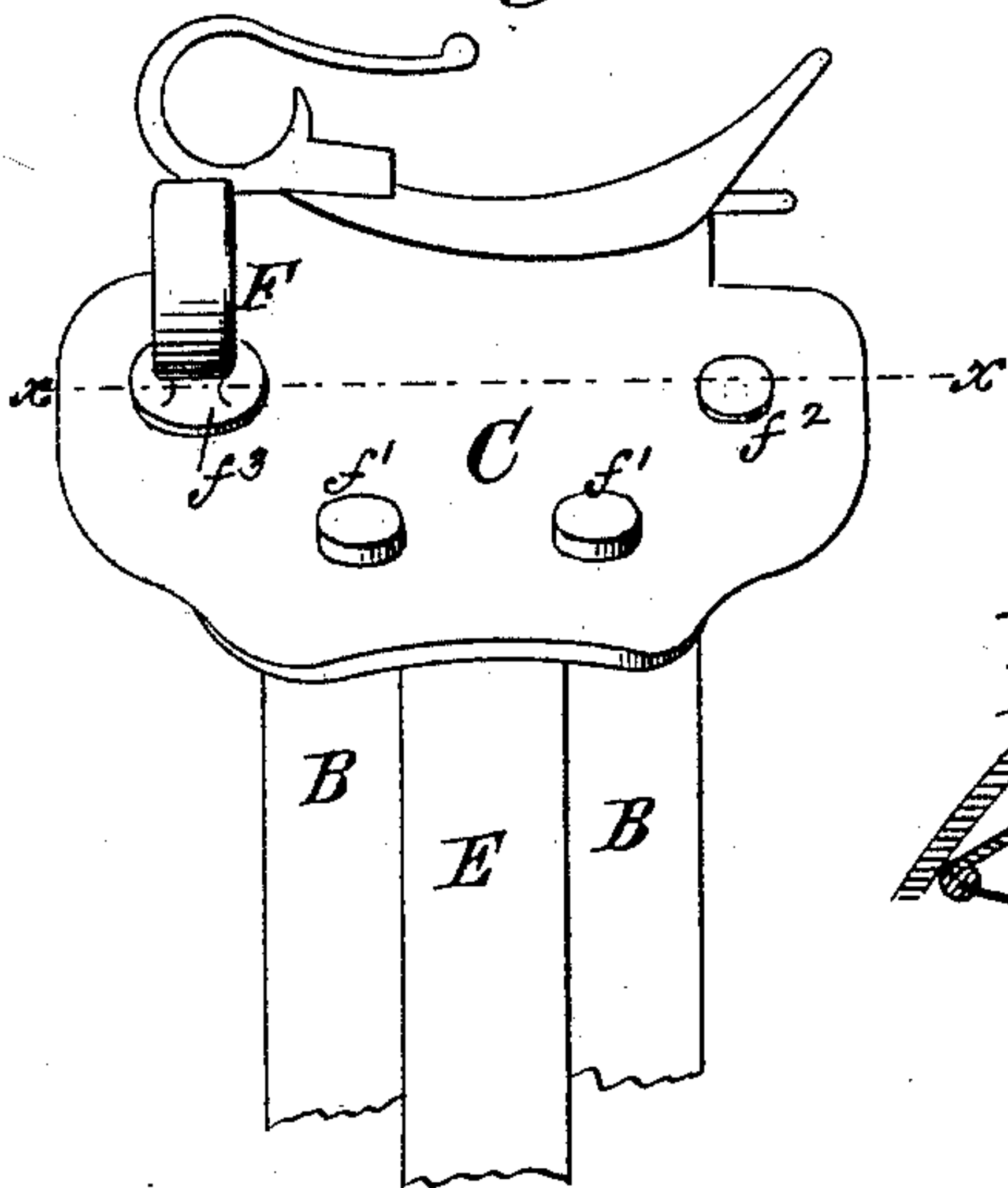


Fig. 4.

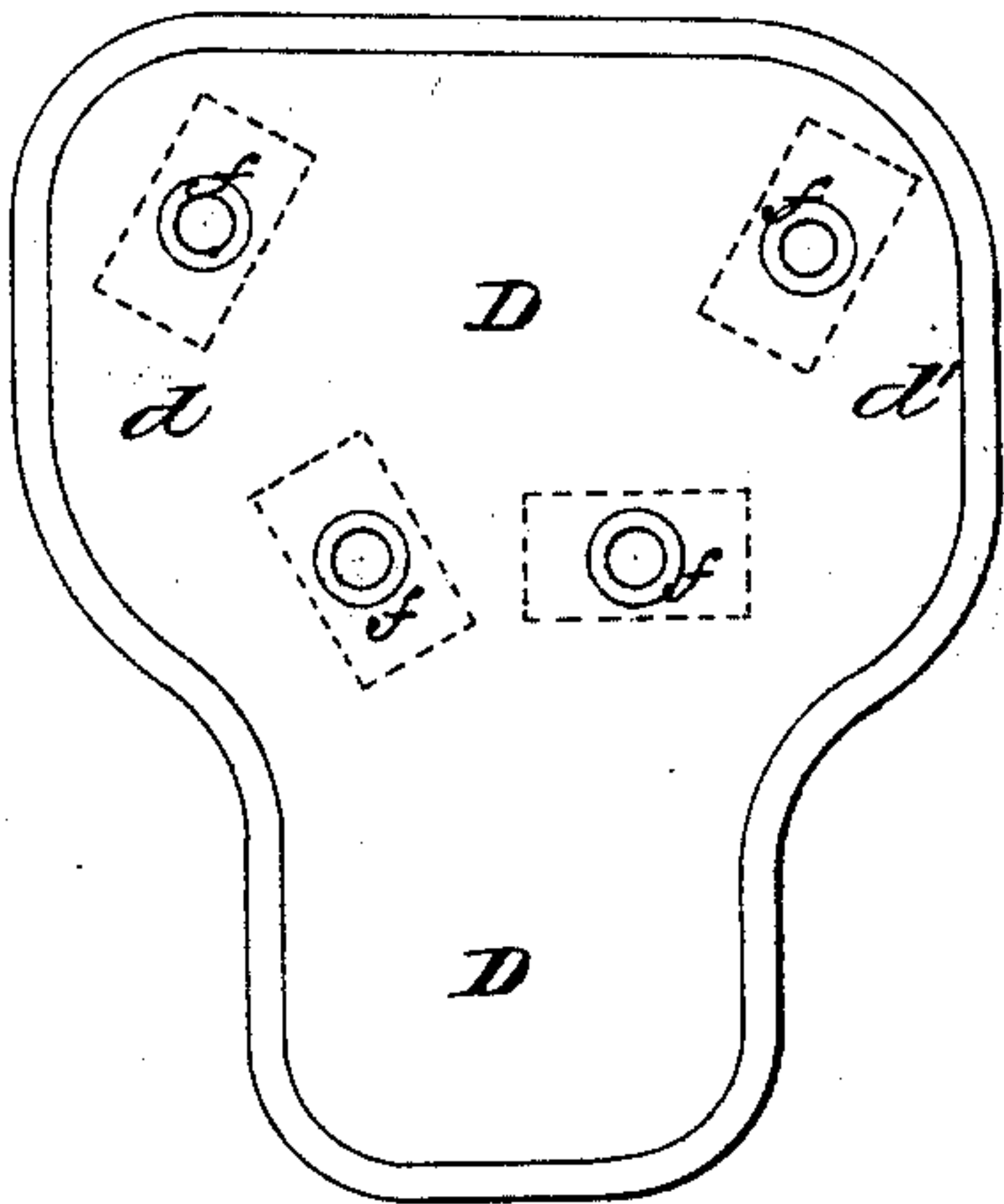


Fig. 3.

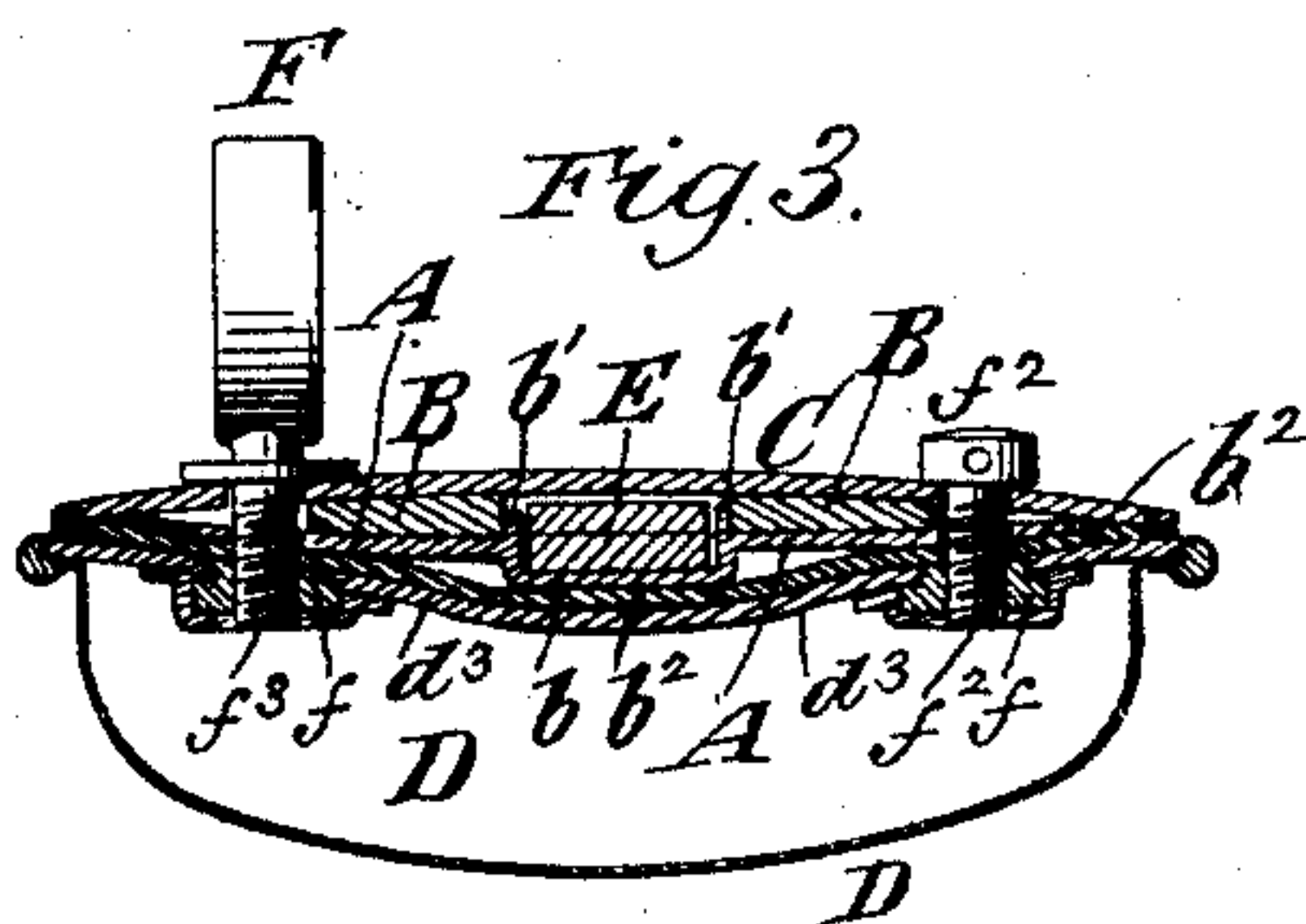
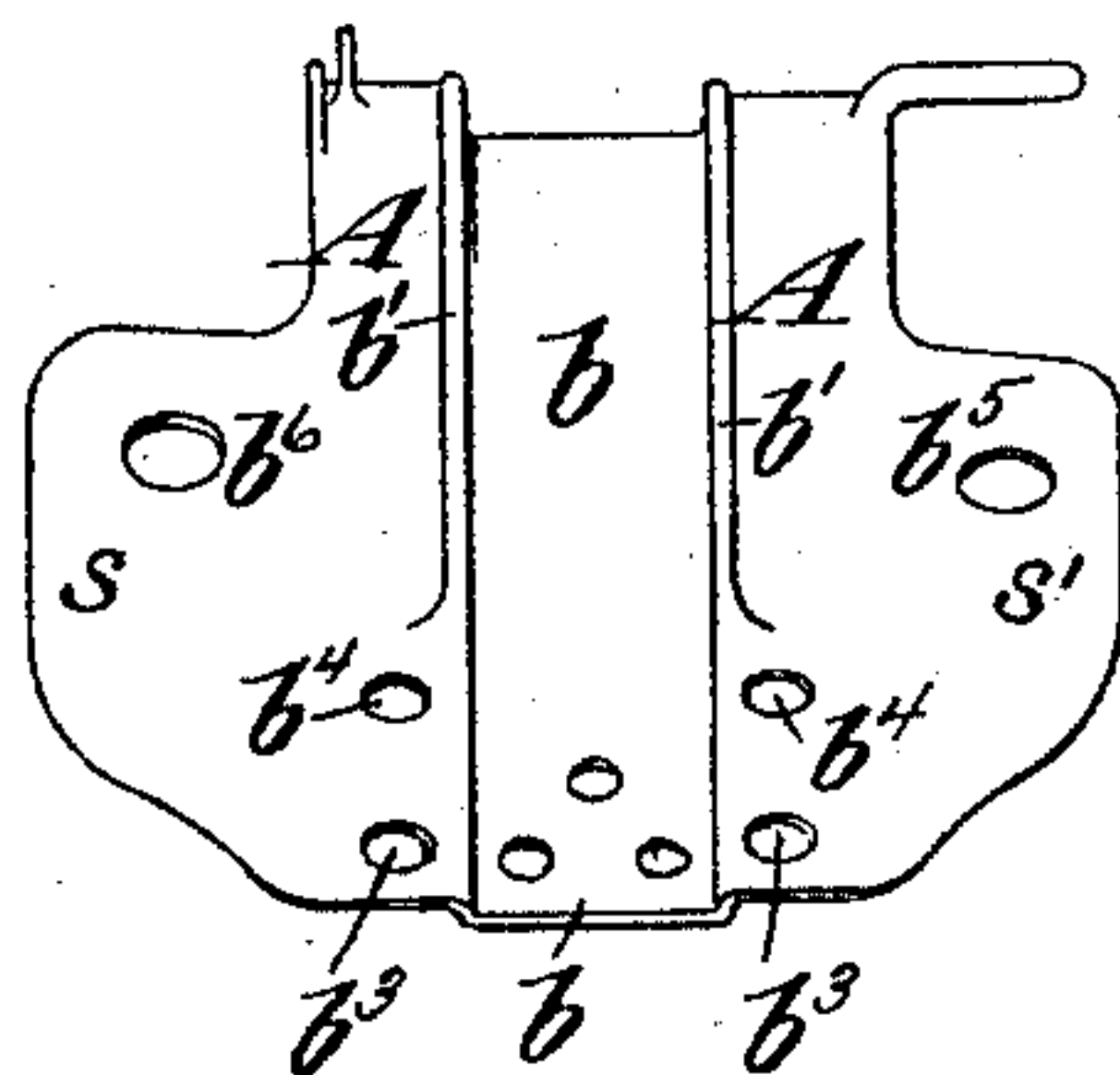


Fig. 5.



Witnesses.

Emil Kertis

O. Sundgren,

Inventor.

Henry Stengel  
By his Attys  
Brown & Hall.



# UNITED STATES PATENT OFFICE.

HENRY STENGEL, OF YONKERS, NEW YORK.

## SADDLE.

SPECIFICATION forming part of Letters Patent No. 363,487, dated May 24, 1887.

Application filed March 4, 1887. Serial No. 229,689. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY STENGEL, of Yonkers, in the county of Westchester and State of New York, have invented a new and useful Improvement in Saddles, of which the following is a specification.

My invention consists in a novel construction of certain parts of a saddle, and in a novel manner of combining these parts, so as to provide for readily detaching them from each other in case it is desired to clean or renew the pads, and also providing a saddle which will be easy upon the back of a horse and will not gall or chafe him. These several features of construction and combination of parts are hereinafter fully described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a sectional view of a saddle embodying my invention. Fig. 2 is a side view thereof. Fig. 3 is a transverse section upon about the plane indicated by the dotted line *xx*, Fig. 2. Fig. 4 represents one of the pads detached from the other parts; and Fig. 5 is a side view of the saddle-tree alone.

Similar letters of reference designate corresponding parts in all the figures.

A designates the body of the saddle-tree, which may be of wrought or malleable iron or other metal.

B designates the flaps.

C designates the outer facing, which is commonly of enameled or other ornamental leather; and D designates the pads of the saddle, through which it is supported upon the horse's back. The pads D are of considerable width at their upper portions, and formed with fore and aft projections or wings, *d d'*, which give them a broad bearing upon the horse's back, and the pads are preferably narrowed in width near their lower portions, so as not to make the saddle too cumbrous. The pads D are entirely separate from each other, and are separately secured to the saddle by screws, as I shall hereinafter describe, so as to provide for their ready detachment from the saddle without in any way impairing it, and the pads are made wholly of flexible material. The pads D, being separate from each other, form between them a gap or clear space, *d''*, which bridges over the backbone of the horse and

avoids any bearing whatever upon the backbone.

The saddle-tree A is formed with fore and aft projections, *s s'*, which give it a considerable width, and which enable it to properly support the pads D, having fore and aft projections, *d d'*. The saddle-tree A has, as here represented, a recess or channel, *b*, which extends entirely across it, and in which the tug-straps E are supported, said straps being here represented as formed in a single piece extending entirely across the saddle. Upon each side of the channel or recess *b* are preferably formed slightly-raised ribs *b'*, upon opposite sides of which fit the two portions of the flap B, and the facing C overlies all the parts before described and forms the desired ornamental finish to the saddle. Beneath the saddle-tree A is the usual lining, *b''*, against which comes the inner leather or back, *d''*, of the pad. The tree A is provided with holes *b'''*, through which are inserted screws *e*, which engage nuts *e'*, and serve to secure the flaps B in place upon the tree, and these screws *e* are covered and concealed by the facing-leather C, as shown in Figs. 1 and 2. In the tree A are also formed other holes, *b<sup>4</sup>*, *b<sup>5</sup>*, and *b<sup>6</sup>*, and the pads D have secured in them nuts *f*, which receive screws *f' f''* and the screw-threaded shanks *f'''* of the terrets F. The several screws *f' f''* and also the terrets are ornamentally finished, as they are exposed outside the facing C, and serve to secure the pads D in place in such manner as to provide for the ready detachment of the pads, and serve also to secure the facing-leather C and hold the component parts of the saddle in proper fixed relation. By unscrewing the terrets F and the screws *f' f''*, the pads D may both be entirely removed, and may be cleaned, repaired, or replaced by new pads.

It will be seen that by my invention I produce a saddle which has a very easy bearing upon the back of a horse and will not wear or chafe; also, that I secure the several parts of the saddle together in a manner which provides for their more easy detachment and attachment than heretofore.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination of a saddle-tree having the fore and aft projections, *s s'*, the flaps B,



and a facing, C, screws *e*, inserted through the flaps and tree beneath the facing, the pads having the fore and aft wings or projections, *d d'*, and made separate from the other parts, 5 the screws *f'*, and the terrets having screw-threaded shanks *f<sup>3</sup>*, the screws *f'* and *f<sup>3</sup>* being inserted through the facing, and the screws *f'* also through the flaps, and both engaging nuts in the pads, substantially as herein described.

10 2. The combination, with the saddle-tree and flaps B and a facing, C, secured on the outer side of the tree, of pads formed wholly of flexible material, made separate from the other parts, and secured to the saddle by screws 15 inserted through the facing and tree and engaging nuts in the flexible back of the pads, substantially as herein described.

20 3. The combination, with the saddle-tree and its flaps B and the facing C, secured on the outer side of the tree, of pads D and terrets having inwardly-projecting shanks in-

serted through the facing and tree and engaging nuts in the pads, substantially as herein described.

4. The combination, with the saddle-tree 25 and flaps and an outer facing, of screws passing through the tree for securing the flaps thereto, and concealed by the outer facing, pads made separate from the flaps, and screws inserted through the outer facing and tree and 30 engaging nuts in the pads for securing the latter in place, substantially as herein described.

5. The saddle-tree herein described, having the fore and aft projections, *s s'*, the holes *b<sup>6</sup>* for terret-screws, and the holes *b<sup>3</sup> b<sup>4</sup> b<sup>5</sup>* for the 35 reception of screws to secure the flaps and pads in place, substantially as herein described.

HENRY STENGEL.

Witnesses:

FREDK. HAYNES,  
EMIL HERTER.