

(No Model.)

C. H. FREEMAN.

DIE FOR PRESSING HARNESS PADS.

No. 315,607.

Patented Apr. 14, 1885.

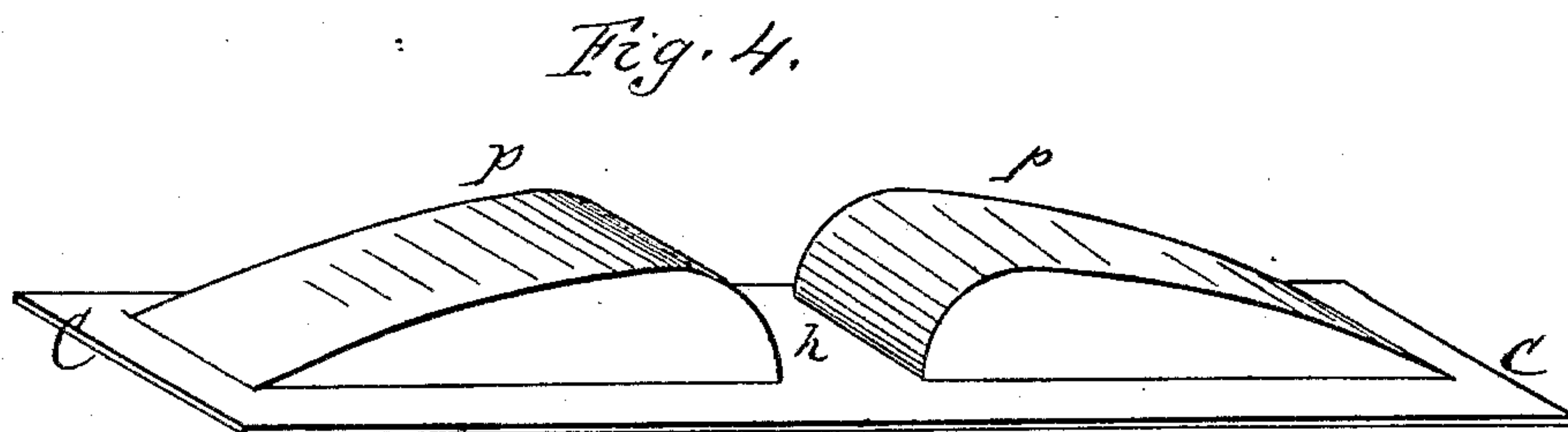
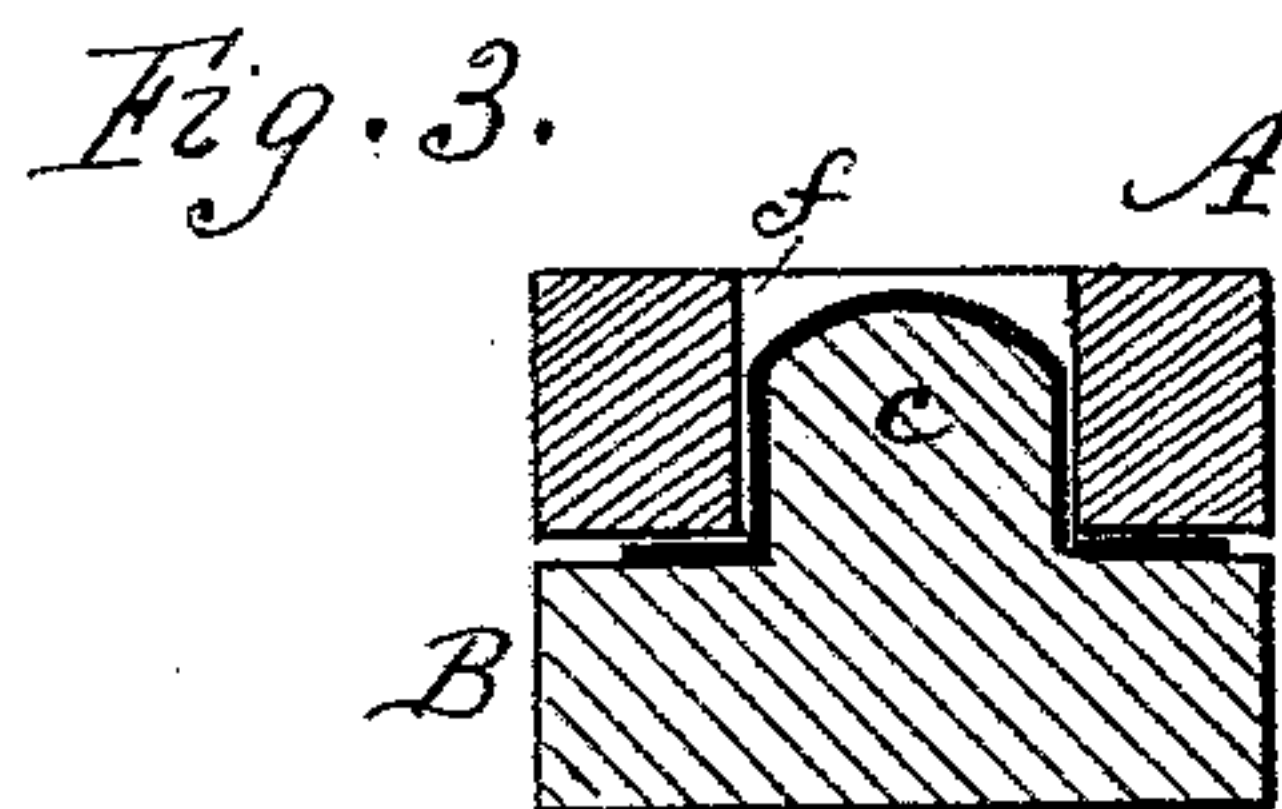
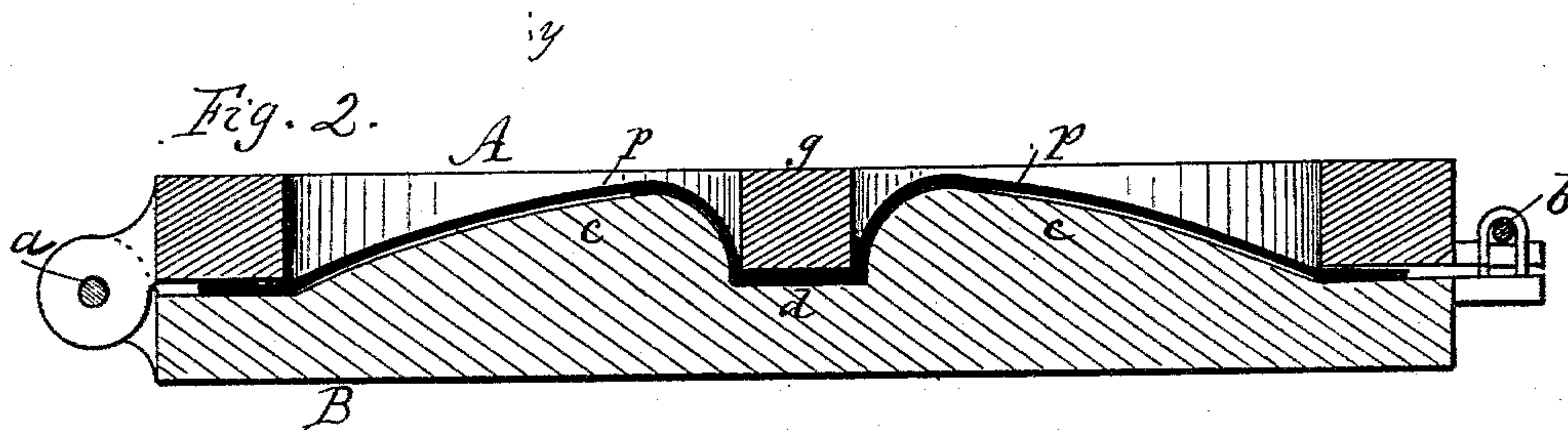
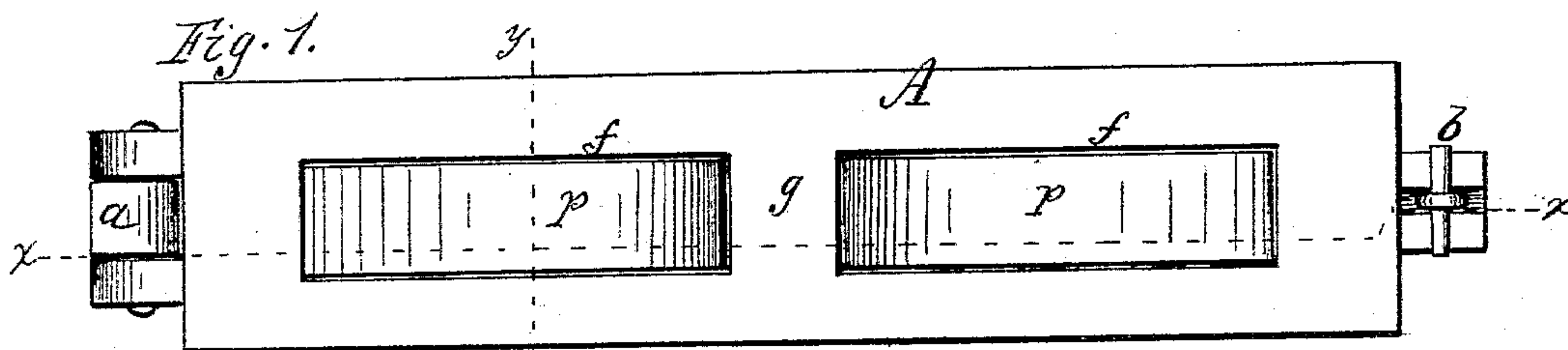
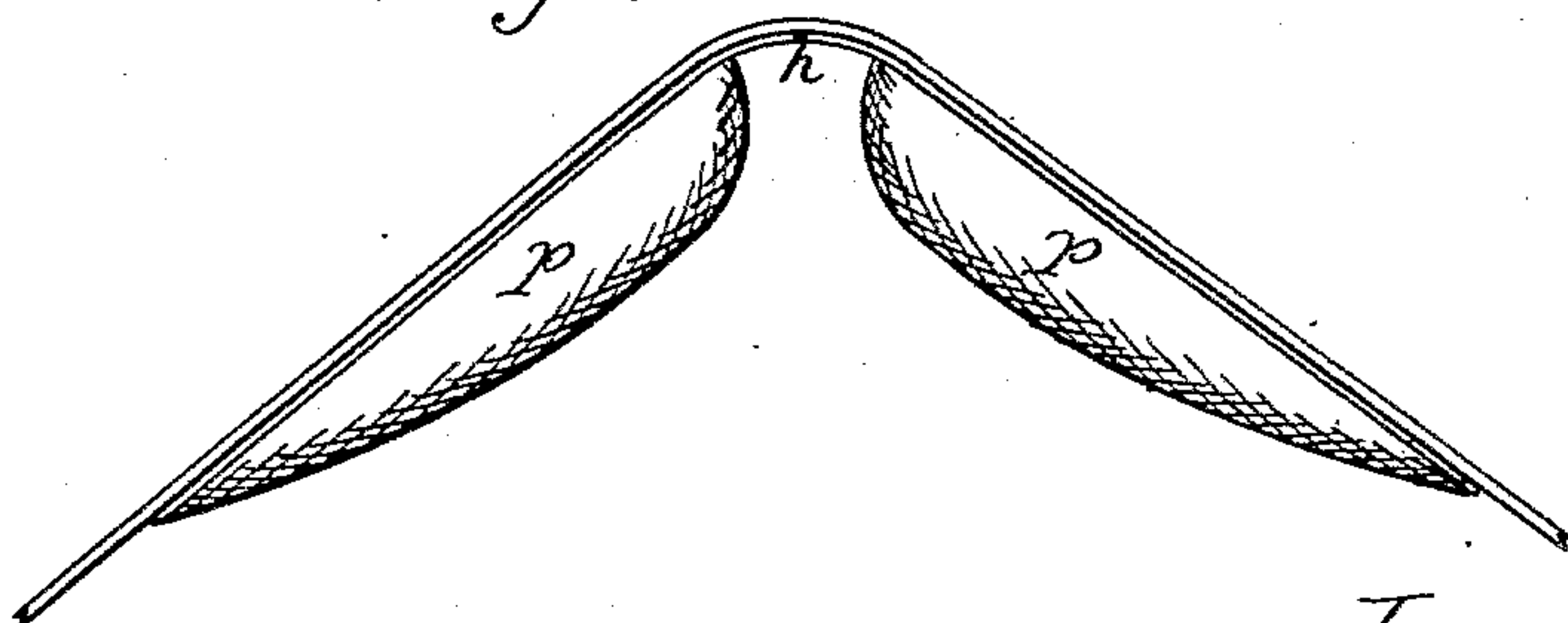


Fig. 5.



Attest.

P. H. Costick  
Paris, G. Larr

Inventor.  
Chas. H. Freeman,  
per R. L. Osgood,  
Atty



# UNITED STATES PATENT OFFICE.

CHARLES H. FREEMAN, OF ROCHESTER, NEW YORK.

## DIE FOR PRESSING HARNESS-PADS.

SPECIFICATION forming part of Letters Patent No. 315,607, dated April 14, 1885.

Application filed September 1, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES H. FREEMAN, of Rochester, in the county of Monroe and State of New York, have invented a certain new and useful Improvement in Dies for Pressing Harness-Pads; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, in which—

Figure 1 is a plan view of the die with the pad pressed in place. Fig. 2 is a longitudinal vertical section of the same in line *xx* of Fig. 1. Fig. 3 is a cross-section in line *yy* of Fig. 1. Fig. 4 is a perspective view of the pressed pad. Fig. 5 is a view of the harness-saddle strap with the pad attached thereto.

My improvement relates to dies for pressing working-harness-pads in double form—that is, the two pads that form the seats of the saddle in one piece connected by a central web or connection—whereby greater strength is secured than where they are made each separate, and they are more easily attached, and more effective in use.

The invention consists of two blocks forming the die, hinged together at one end, the lower die provided with two forms over which the pad is pressed, the upper one provided with two slots which strike over the forms of the lower block, and also with a central cross-bar that strikes the connecting-web of the pad, all as hereinafter described.

In the drawings, A represents the upper, and B the lower, block, which are preferably made of metal, and are hinged at *a* at one end, and secured by a pin, *b*, at the opposite end when closed, or arranged in some equivalent way to perform the same result. The thin leather pad C is simply placed between these blocks and pressed into form by closing the die and placing it in a suitable press where pressure can be applied. The lower die, B, is provided at the two opposite ends with curved enlargements *cc*, which constitute the “forms” over which the leather is pressed, and with a narrow plain surface, *d*, in the center between the forms, as shown most clearly in Fig. 2. The upper die, A, has two

open slots, *ff*, at opposite ends, of sufficient size to strike over the enlargements *cc* of the lower die, and with a central cross-bar, *g*, which strikes down between the enlargements and upon the narrow surface *d* of the lower die. The enlargements *cc* are of the shape shown in Fig. 2, the swell being the greatest at the inner end, so as to make the pads *pp* of corresponding form, by which, when attached to the saddle as shown in Fig. 5, the pads will strike the horse's back on each side of the center, and the backbone will have ample space to rest between them without coming in contact with the saddle. This obviates a great objection which is made to ordinary harness, where the pads are so flat that the saddle galls the backbone. The flat strip of leather to form the pad is wet and placed between the dies, which are then closed and subjected to pressure in a suitable press. The enlargements *cc* pass up through the slots *ff*, and the latter, striking over the leather, stretch and smooth the same, and form a perfect pad. The cross-bar *g*, striking down on the plain bed *d*, forms the plain web *h*, connecting the two pads in one piece.

After being formed as above described the edges of the leather are trimmed off to the proper size, and the piece constituting the pads is sewed to the saddle-strap, the web *h* extending across under the center of the strap, as shown in Fig. 5.

I am aware that it is customary to press out single pads for harness.

My invention is particularly applicable to pressing pads for work-harness, where it is desired to give considerable fullness to the pads next the center, and where it is desirable to make both pads in one piece, and this die, by its peculiar construction, as before described, is adapted to making such double pads with a connecting web or blank between, all in one body.

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

The herein-described die for making double harness-pads, the same consisting of the two blocks A B, the lower block, B, provided

with forms *c c* at opposite ends, with a plain depressed bed, *d*, between, the upper block, A, being provided with slots *f f*, which strike over the forms, and with a cross-bar, *g*, which  
5 strikes upon the bed, the whole arranged as described, and operating in the manner and for the purpose specified.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

CHAS. H. FREEMAN.

Witnesses:

R. F. OSGOOD,

P. A. COSTICH.