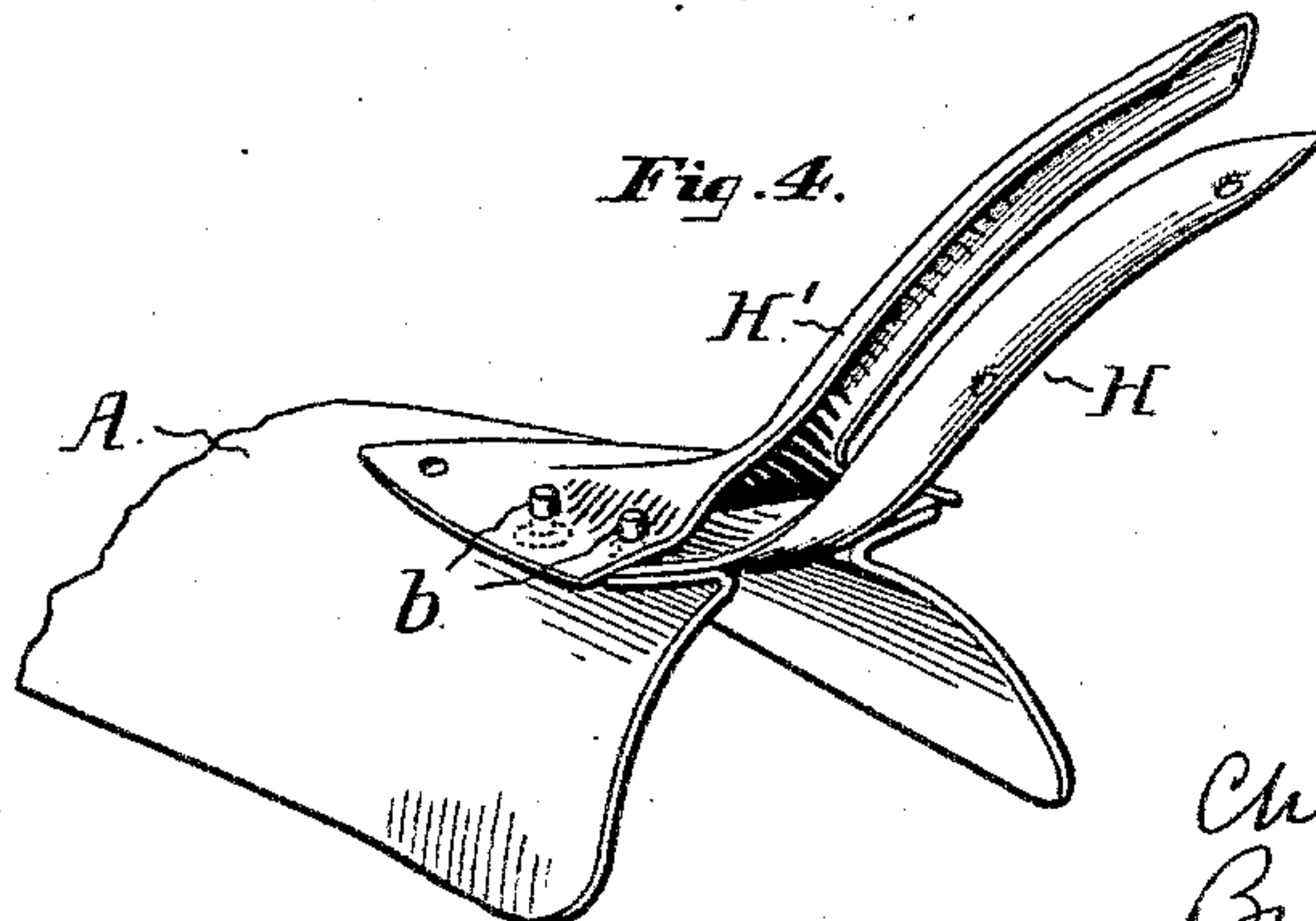
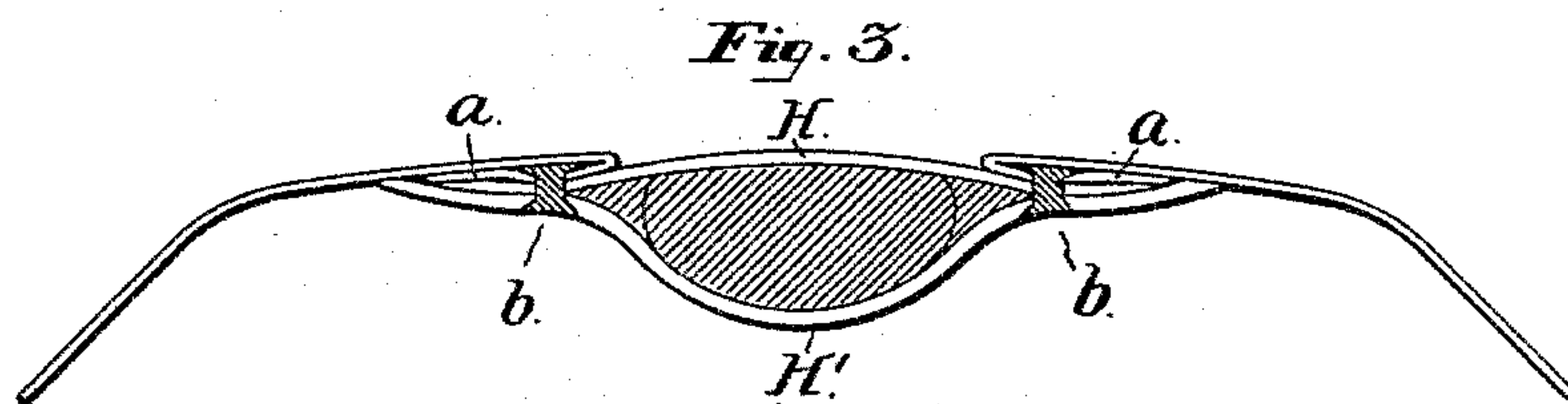
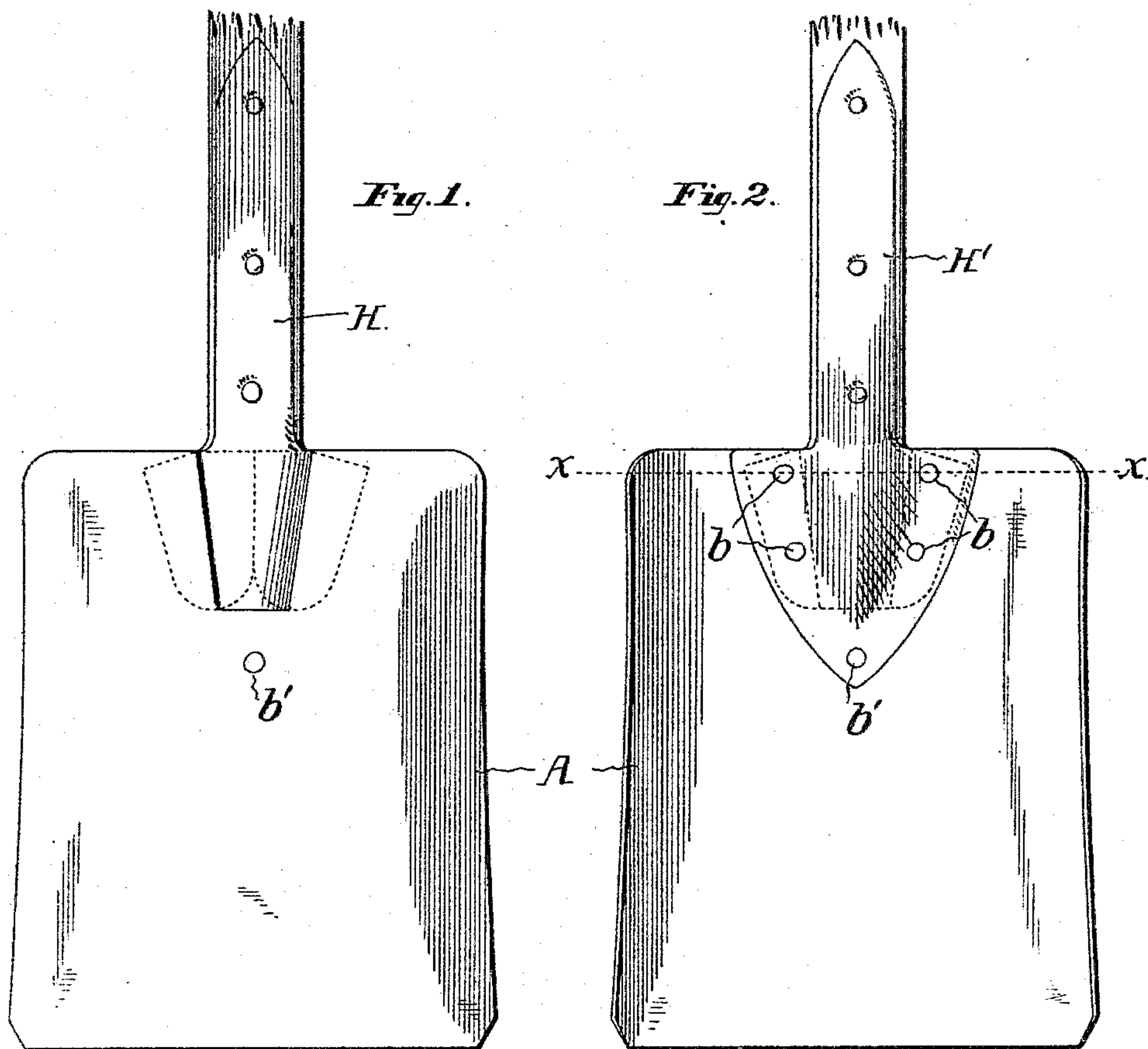


(No Model.)

C. W. WRIGHT.  
SHOVEL OR SPADE.

No. 412,355.

Patented Oct. 8, 1889.



WITNESSES:

Edward J. Reed  
C. H. Zug.

INVENTOR

Charles Wesley Wright  
By his Attorney,  
Israel Pettit.



# UNITED STATES PATENT OFFICE.

CHARLES WESLEY WRIGHT, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR  
OF ONE-HALF TO RICHARD P. WRIGHT, OF SAME PLACE.

## SHOVEL OR SPADE.

SPECIFICATION forming part of Letters Patent No. 412,355, dated October 8, 1889.

Application filed June 24, 1889. Serial No. 315,392. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES WESLEY WRIGHT, of Holmesburg, Philadelphia, State of Pennsylvania, have invented a certain  
5 new and useful Improvement in Shovels or Spades; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, forming part of this specification.  
10

My invention has relation to the method of securing the handle-straps to the blade of the shovel or spade; and it consists in a shovel or spade blade having both the front and back  
15 handle-strap secured to the front of the blade, as hereinafter particularly set forth and described.

In the accompanying drawings similar letters of reference refer to similar parts  
20 throughout.

Figure 1 is a rear view of my improved shovel. Fig. 2 is a front view. Fig. 3 is a cross-sectional view on the line *xx* of Fig. 2. Fig. 4 represents the shovel-blade bent back  
25 as in the process of construction, as for the purpose of riveting and securing the handle-straps to the blade.

*A* is the blade of the shovel or spade.

*H* represents the rear or back handle-strap,  
30 and *H'* the front handle-strap.

*a* is a flange consisting of a portion of the blade *A* bent forward and down against the front face of the blade, to which the back strap *H* and the front strap *H'* are securely  
35 riveted by the rivets *b*, as particularly shown in Fig. 3.

The blade *A* in the process of construction is cut into the proper shape, and the flanges *a* cut or stamped in the upper central part of the blade, as shown in the center dotted lines  
40 in Fig. 1, rivet-holes being provided in the flanges *a* at the proper points. The flanges *a* and the blade *A* are then bent to about the position shown in Fig. 4. The back strap *H* and the front strap *H'* are then placed in position on the flanges *a*, as shown, and riveted  
45

securely thereto, the inner heads of the rivets being on the under side of the flange *a*, between the flanges *a* and the blade *A*. The blade *A* is then bent forward and given its  
50 proper shape, as shown particularly in cross-section in Fig. 3. An additional rivet *b'* is provided through the blade *A* and the front strap *H'*, having its head countersunk in the back of the blade *A* to give additional  
55 strength.

The object of my invention is to provide a strong and durable handle-strap-fastening device, which at the same time can be more  
60 cheaply constructed than by the method usually employed of securing the strap-fasteners to the shovel-blade, and a further object is to provide a shovel or spade having an even and smooth rear surface to prevent friction in  
65 shoveling, while at the same time there is presented on the face of the blade no greater irregularity and unevenness than in the former method of construction. The heads of the  
70 rivets *b* being between the flanges *a* and blade *A* are thus protected and cannot wear off as in shovels where they are exposed and constantly subject to friction.

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

1. In a shovel or spade, the flanges *a*, the back strap *H*, and the front strap *H'*, secured together by riveting or otherwise, in the manner and for the purpose substantially as hereinbefore set forth and described.  
80

2. In a shovel or spade, a blade having flanges *a* bent forward and down against the face of the blade, and having back and front handle-straps secured to the said flanges by riveting or otherwise, substantially as hereinbefore set forth and described.  
85

In witness whereof I have hereunto set my hand this 22d day of June, A. D. 1889.

CHARLES WESLEY WRIGHT.

Witnesses:

REESE M. FLEISCHMANN,  
HORACE PETTIT.