

(No Model.)

L. F. HAYNES.  
PLOW.

No. 451,931.

Patented May 12, 1891.

Fig. 1.

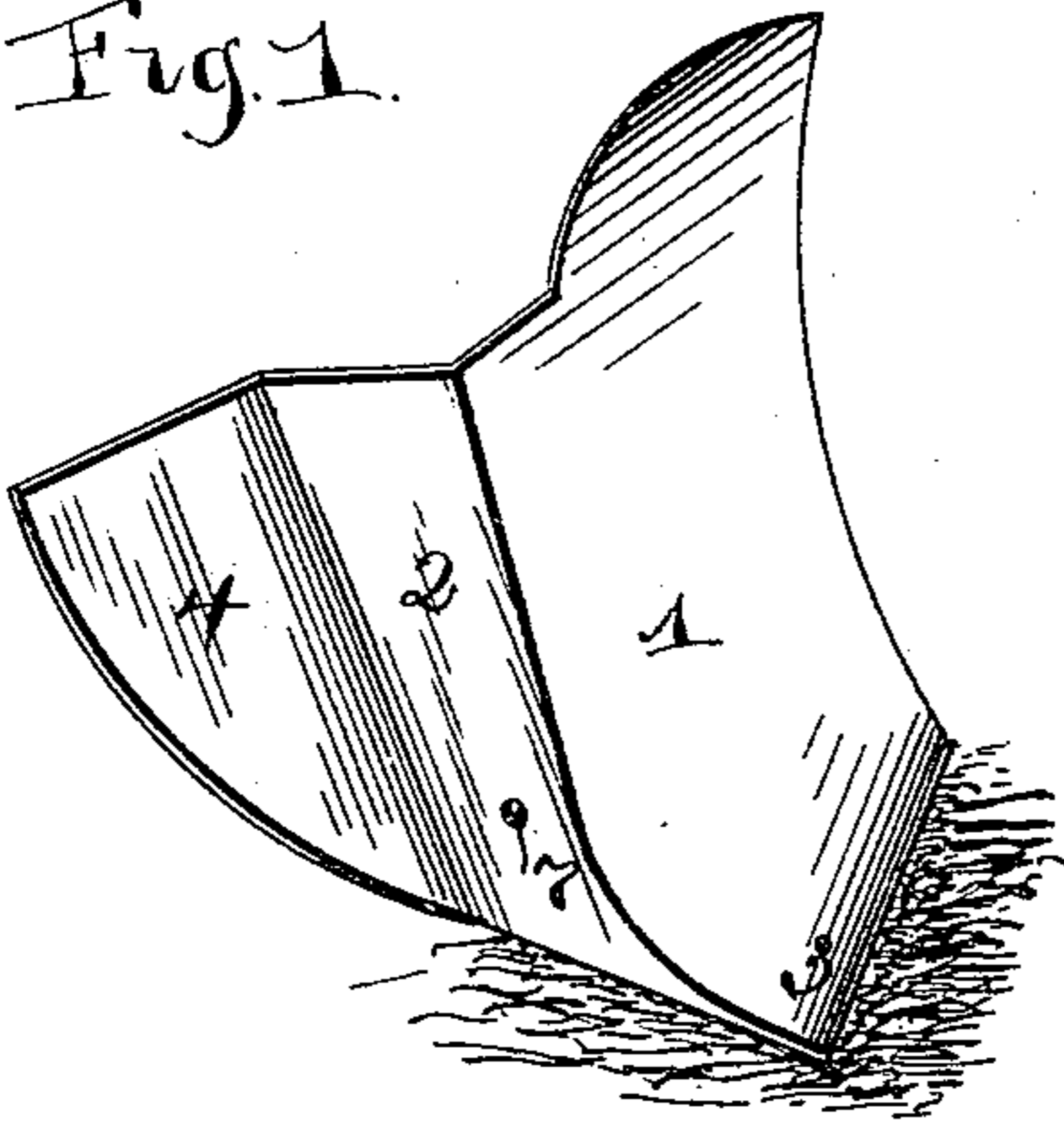


Fig. 2.

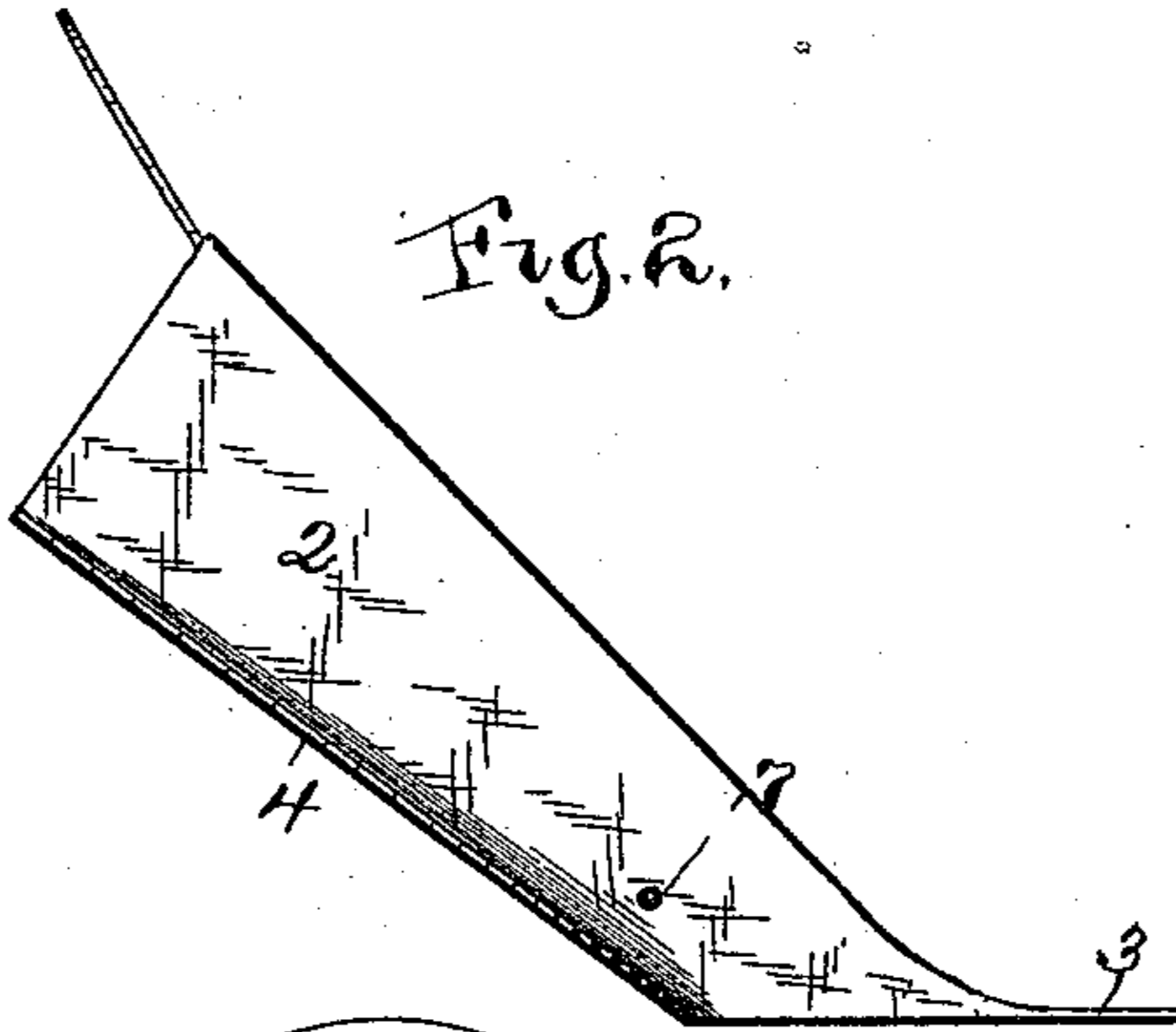


Fig. 3.

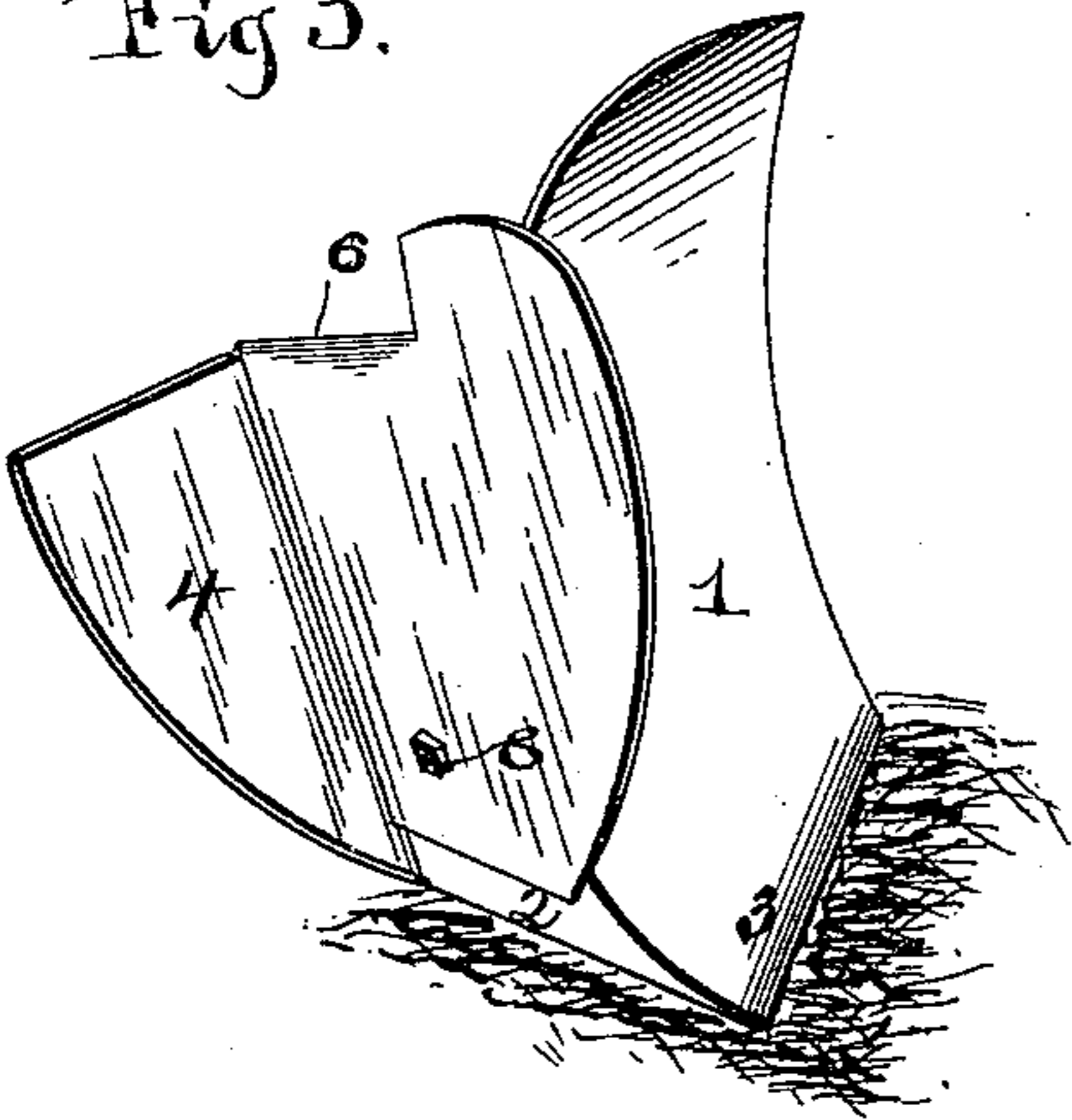


Fig. 4.

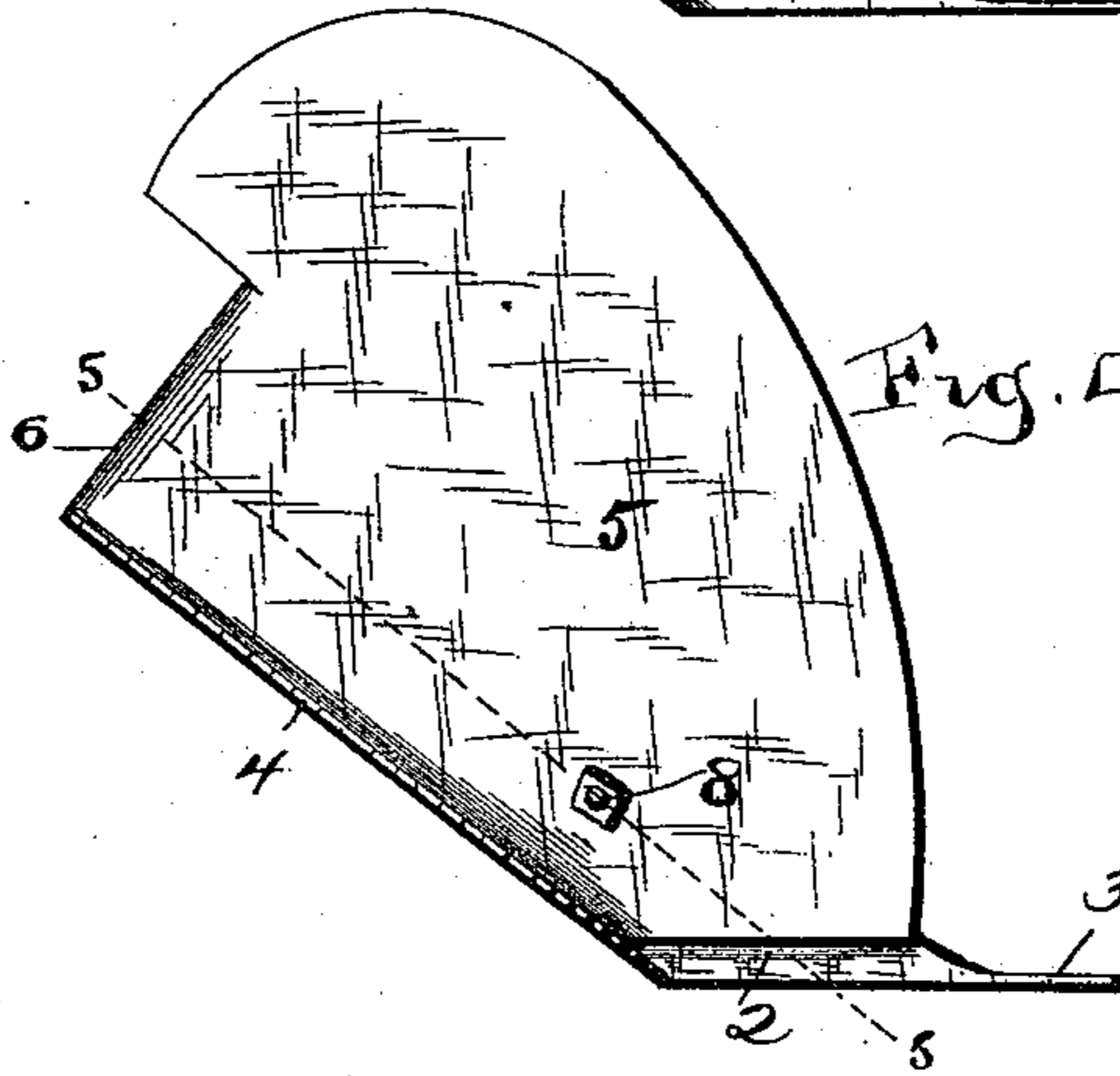


Fig. 5.

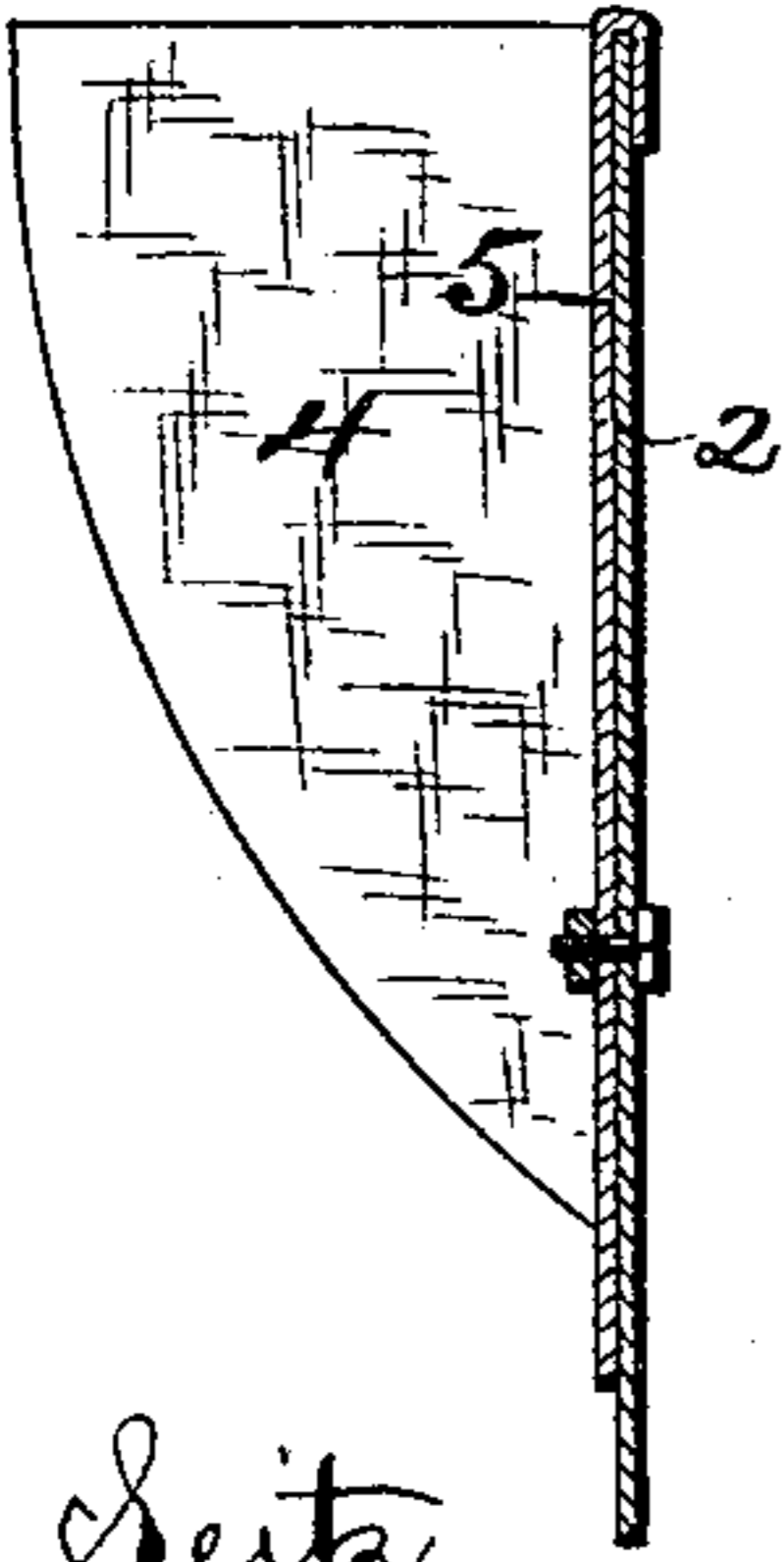
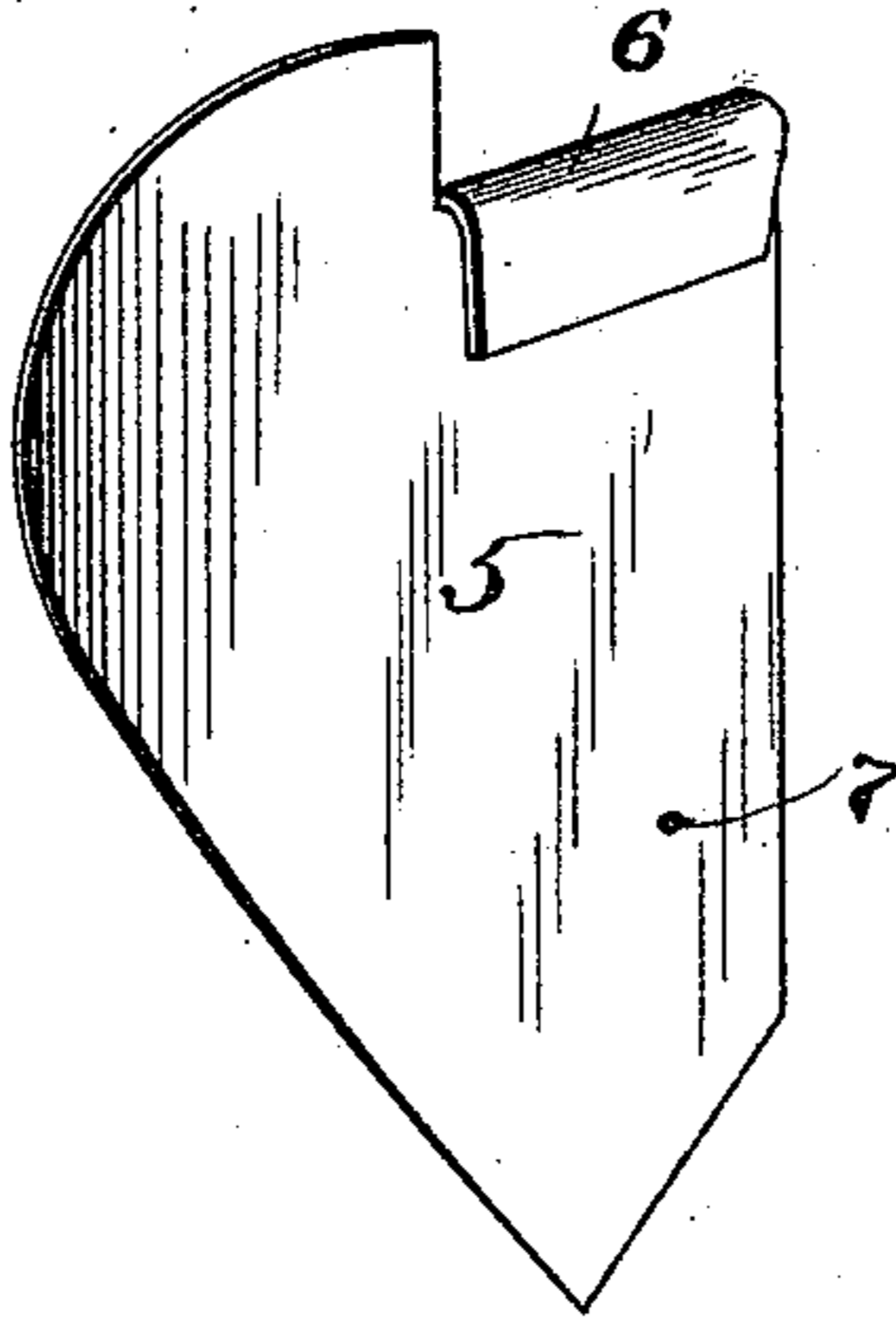


Fig. 6.



Witnesses

H. G. Seitz

Wm. Bagger

Inventor

L. F. Haynes

By his Attorneys,

C. A. Snow & Co.

# UNITED STATES PATENT OFFICE.

LEONARD FRANKLIN HAYNES, OF ATLANTA, TEXAS.

## PLOW.

SPECIFICATION forming part of Letters Patent No. 451,931, dated May 12, 1891.

Application filed December 12, 1890. Serial No. 374,463. (No model.)

*To all whom it may concern:*

Be it known that I, LEONARD FRANKLIN HAYNES, a citizen of the United States, residing at Atlanta, in the county of Cass and State of Texas, have invented a new and useful Plow, of which the following is a specification.

This invention relates to cultivating-plows adapted especially for cultivating corn, cotton, and similar crops; and it has for its object to provide a device of this class which shall be simple and efficient in operation, and which may be readily provided with an attachment in the shape of a fender, which when young crops are being cultivated shall prevent the dirt from tumbling over upon and injuring the plants.

With these ends in view the invention consists in the improved construction, arrangement, and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, Figure 1 is a perspective view showing my improved plow without the fender. Fig. 2 is a side view of the same. Fig. 3 is a perspective view showing the plow with the fender attached. Fig. 4 is a side view of the same. Fig. 5 is a sectional view taken on the line 5 5 of Fig. 4. Fig. 6 is a perspective view showing the fender detached.

Like numerals of reference indicate like parts in all the figures.

1 designates the blade of an ordinary turning-plow, which is provided at the land side with a rearwardly-extending flange 2, which is wider at its upper than at its lower end. The lower edge of said flange is tapered to the point 3. Laterally extending from the flange 2 is the blade 4 of an ordinary sweep or bull-tongue 4, which is preferably, but not necessarily, formed integral with the flange 2 and blade 1. It will be observed that owing to the construction of the flange 2, which is wider at its upper than at its lower end, the sweep 4 is less inclined than the blade 1. Consequently the dirt will be thrown or agitated less forcibly by the said sweep than by the blade of the turning-plow.

5 designates a fender consisting of a suitably-constructed plate, which is provided at its upper edge with a downturned flange or hook 6, adapted to engage the upper edge of the flange 2. The rear edge of the fender-plate 5 is adapted to rest in the corner be-

tween the flange 2 and the sweep 4. The flange 2 and the plate 5 are provided with registering perforations 7, adapted to receive a bolt 8, by means of which the fender may be secured detachably to the plow.

The operation and advantages of my invention will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed. The plow is attached in the usual manner to the standard of a suitable beam. When the device is used for cultivating young crops, the fender is placed in position and will serve to prevent the loose dirt from tumbling over upon the growing plants. When the plants to be cultivated have attained a larger growth, the fender may be removed, and a portion of the loose soil will thus be permitted to cover the roots of the plants.

Having thus described my invention, what I claim is—

1. A turning-plow provided at its land side with a rearwardly-extending flange wider at its upper than at its lower end and having a laterally-extending sweep, substantially as and for the purpose set forth.

2. A turning-plow provided at its land side with a rearwardly-extending flange having a laterally-extending sweep, in combination with a fender-plate adapted to be secured detachably to said flange, substantially as and for the purpose set forth.

3. The combination, with a plow having a rearwardly-extending flange provided with a laterally-extending sweep, of a fender provided at its upper edge with a hook adapted to engage the upper end of said flange, substantially as and for the purpose set forth.

4. The combination, with a plow having a rearwardly-extending flange wider at its upper than at its lower end and provided with a laterally-extending sweep, of a fender consisting of a plate provided at its upper edge with a hook adapted to engage the upper edge of the flange, and a single connecting-bolt, substantially as and for the purpose set forth.

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

LEONARD FRANKLIN HAYNES.

Witnesses:

FRANK BLADES,  
M. BOKER.