

No. 848,041.

PATENTED MAR. 26, 1907.

E. B. MURPHY.
PLOWSHARE.

APPLICATION FILED JUNE 8, 1906.

Fig. 1.

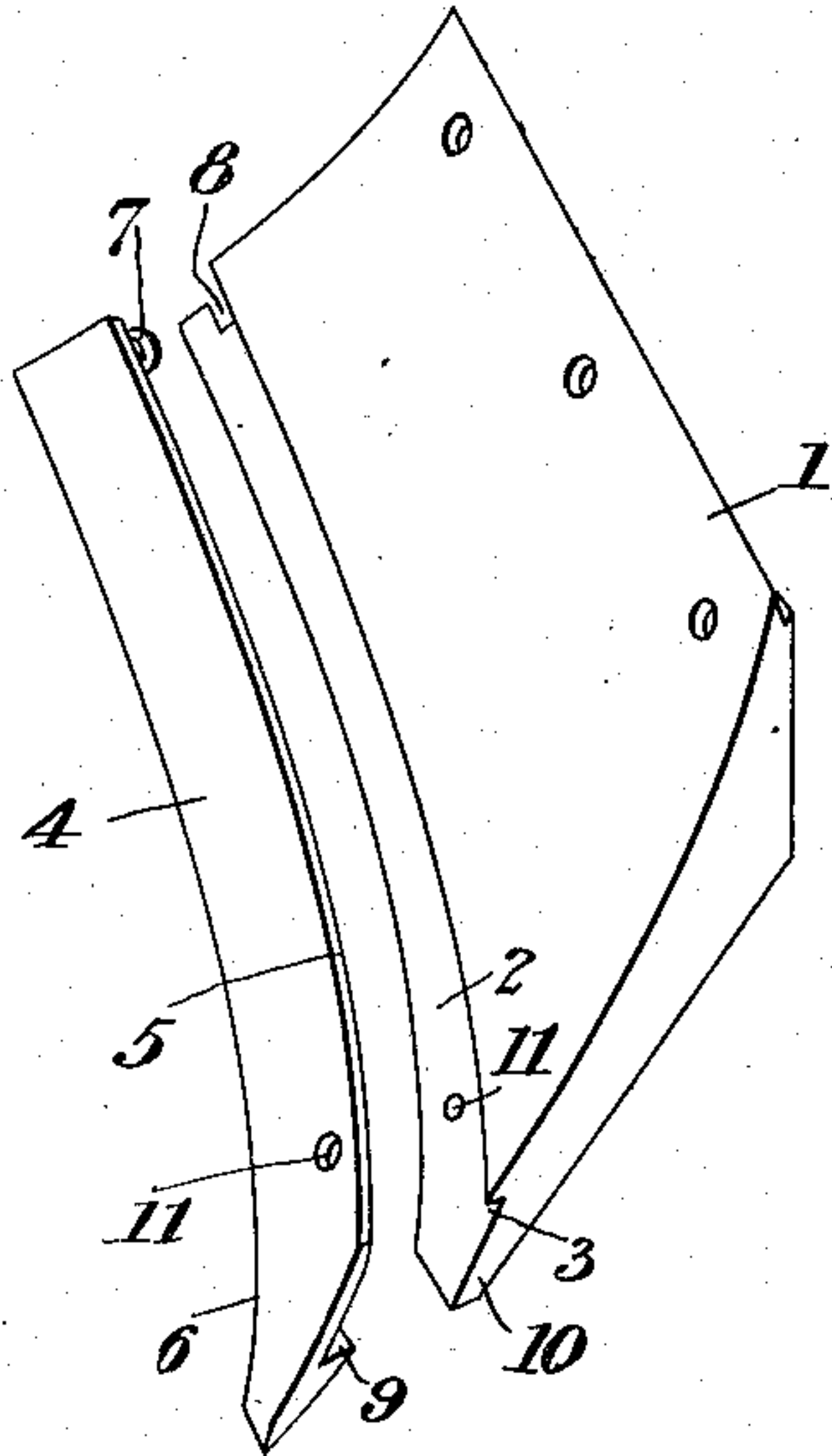


Fig. 2.

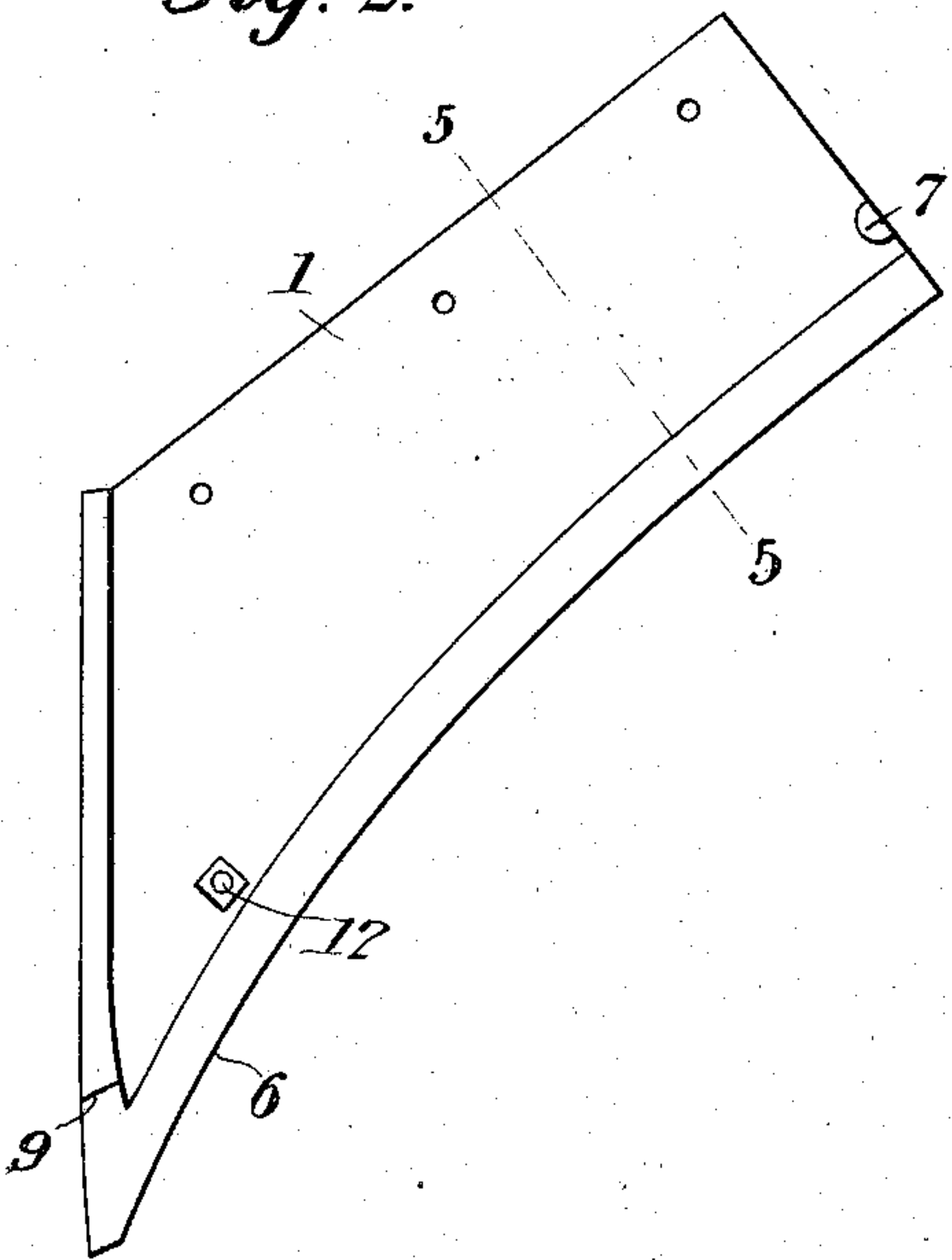


Fig. 3.

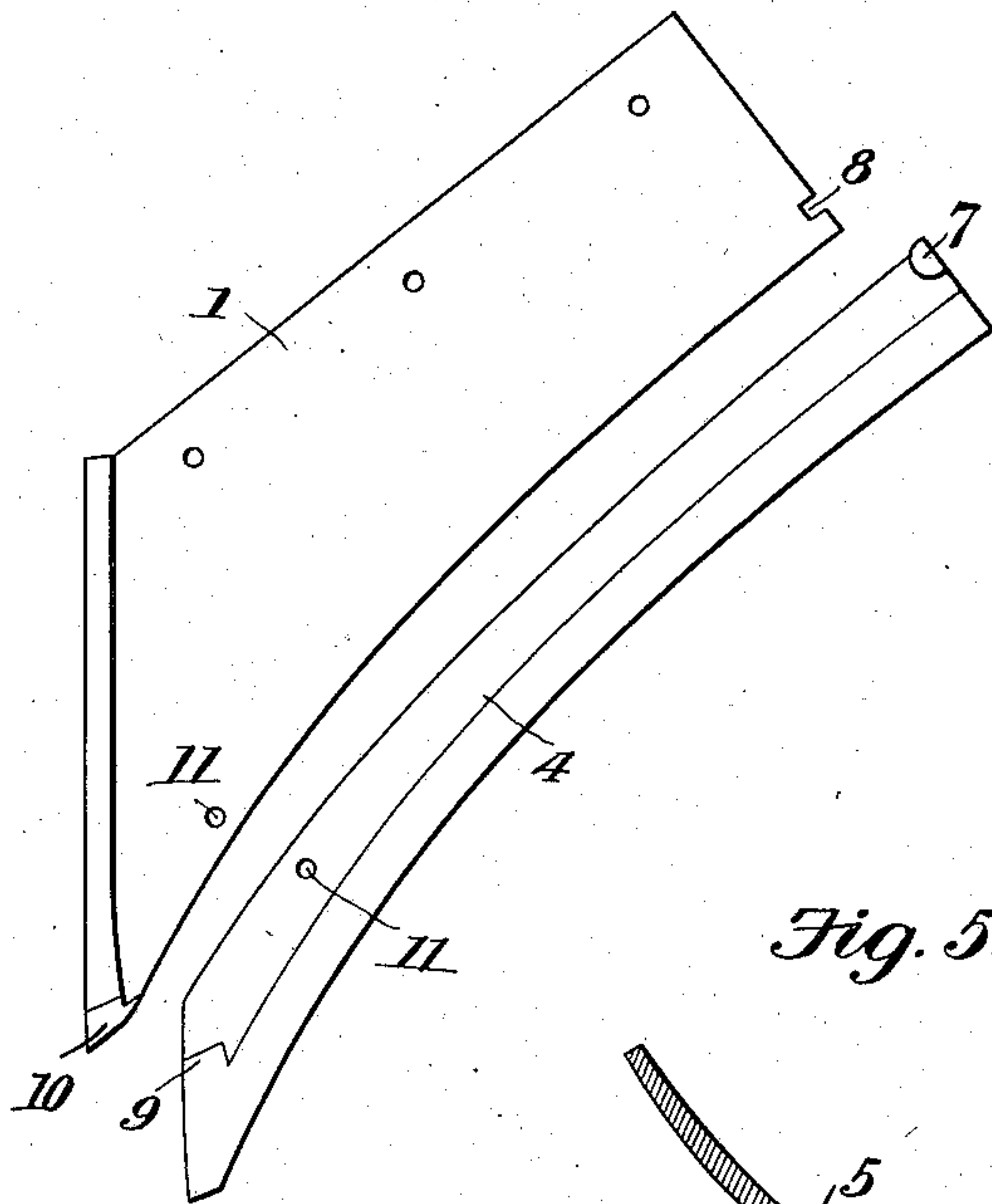


Fig. 4.

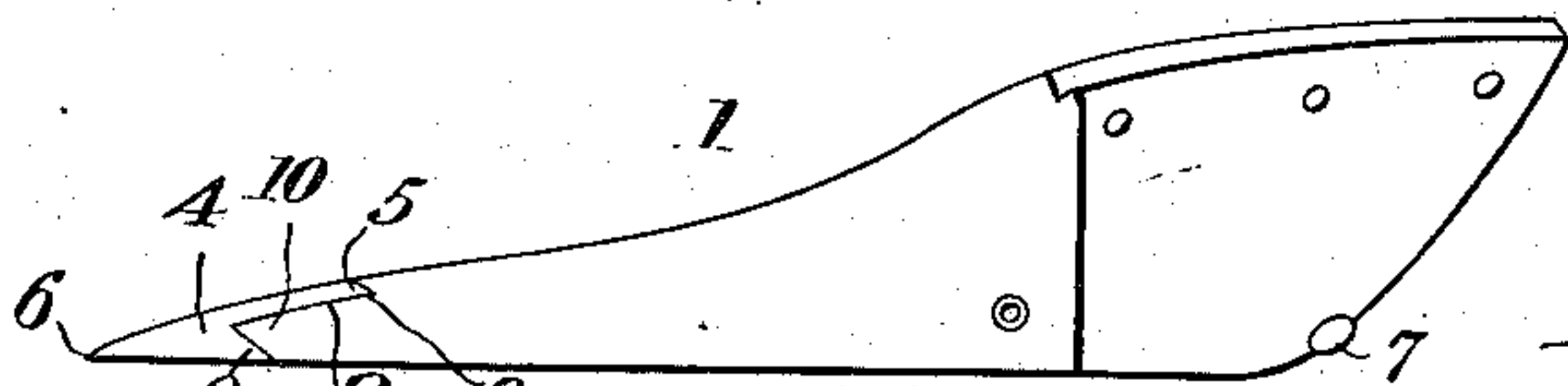
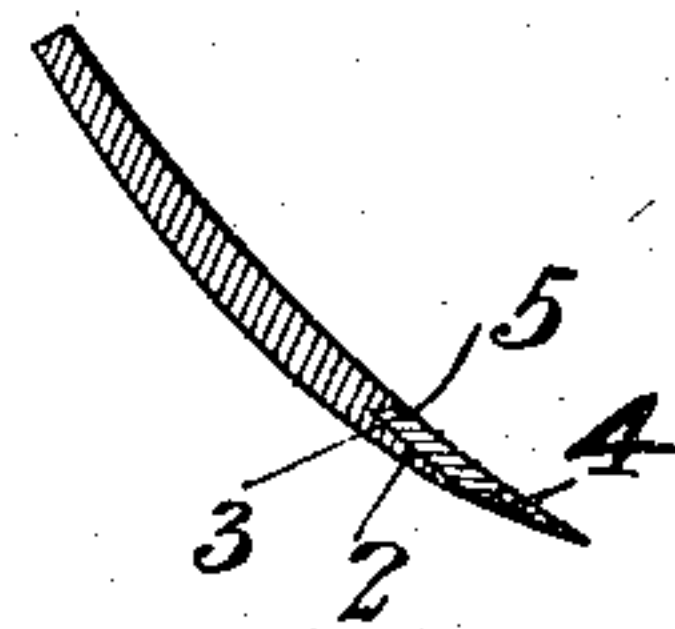


Fig. 5.



WITNESSES:

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UNITED STATES PATENT OFFICE.

EDWARD B. MURPHY, OF BLACKWATER, MISSOURI.

PLOWSHARE.

No. 848,041.

Specification of Letters Patent.

Patented March 26, 1907.

Application filed June 8, 1906. Serial No. 320,834.

To all whom it may concern:

Be it known that I, EDWARD B. MURPHY, a citizen of the United States, residing at Blackwater, in the county of Cooper and State of Missouri, have invented a new and useful Plowshare, of which the following is a specification.

This invention relates to plows, and it has particular reference to plowshares, the principal object of the invention being to provide an improved detachable cutting edge for the plowshare, which may be readily removed for resharpening or for the substitution of a new cutting edge or blade, thus enabling the share to be resharpened without the necessity of taking the plow to the blacksmith-shop.

Other objects of the invention are to simplify and improve the construction and operation of the share and the detachable cutting edge.

With these and other ends in view, which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claim.

In the accompanying drawings has been illustrated a simple and preferred form of the invention, it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations, and modifications within the scope of the invention may be made when desired.

In the drawings, Figure 1 is a perspective view showing the improved share and the cutting edge or blade separated from each other. Fig. 2 is a bottom plan view showing the share and the cutting edge joined together. Fig. 3 is a bottom plan view showing the share and the cutting edge separated. Fig. 4 is a side elevation of the share and cutting edge seen from the land side and assembled. Fig. 5 is a sectional view taken on the plane indicated by the line 5 5 in Fig. 2.

Corresponding parts in the several figures are indicated throughout by similar characters of reference.

The share 1 is provided in the upper side thereof, at its lower edge, with a recess 2, extending across the entire width of the share, and at the back of said recess is formed an undercut approximately V-shaped groove 3. The detachable blade 4, which is of suit-

able size and shape to fit in the recess 2, has a beveled approximately V-shaped back edge 5, adapted to engage the undercut groove 3. The front edge 6 of said blade may be sharpened, so as to present a keen cutting edge. Said blade is provided upon its under side, at the furrow end thereof, with a headed stud 7, adapted to engage a notch 8 in the share. At the land end the blade is provided on its under side with a hook member 9, adapted to hook over the point of the share, as clearly shown in Fig. 4 of the drawings, where the point of the share is designated 10. The share and the blade are provided near the point with registering perforations 11 for the passage of a connecting-bolt 12.

It will be seen that under the construction described a single bolt will be sufficient to connect the share and the blade very securely together. The headed stud 7, engaging the notch 8, and the hook member 9, engaging the point 10, cooperate with said bolt to hold the parts securely together for operation. The undercut groove 3, which receives the back edge of the blade, also serves materially to strengthen the latter and to retain it securely in operative position, the construction being such that the parts when fitted together will present a smooth and finished appearance. By simply removing the bolt 12 the blade may be quickly detached by first disengaging the hook 9 and then sliding the blade laterally to disengage the stud 7 from the notch 8. The blade may then be readily sharpened and replaced without resorting to skilled labor. If desired, a supply of sharp blades may be kept on hand, the same to be used interchangeably. This invention is readily applicable to plows of various construction and to cast as well as to wrought shares.

Having thus described the invention, what is claimed is—

A plowshare having a recess with a rear wall extending at an acute angle to the bottom thereof, and a blade fitted detachably in said recess and having a beveled back edge engaging the rear wall of the recess.

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

EDWARD B. MURPHY.

Witnesses:

A. M. HALL,
LEE O'NEAL.