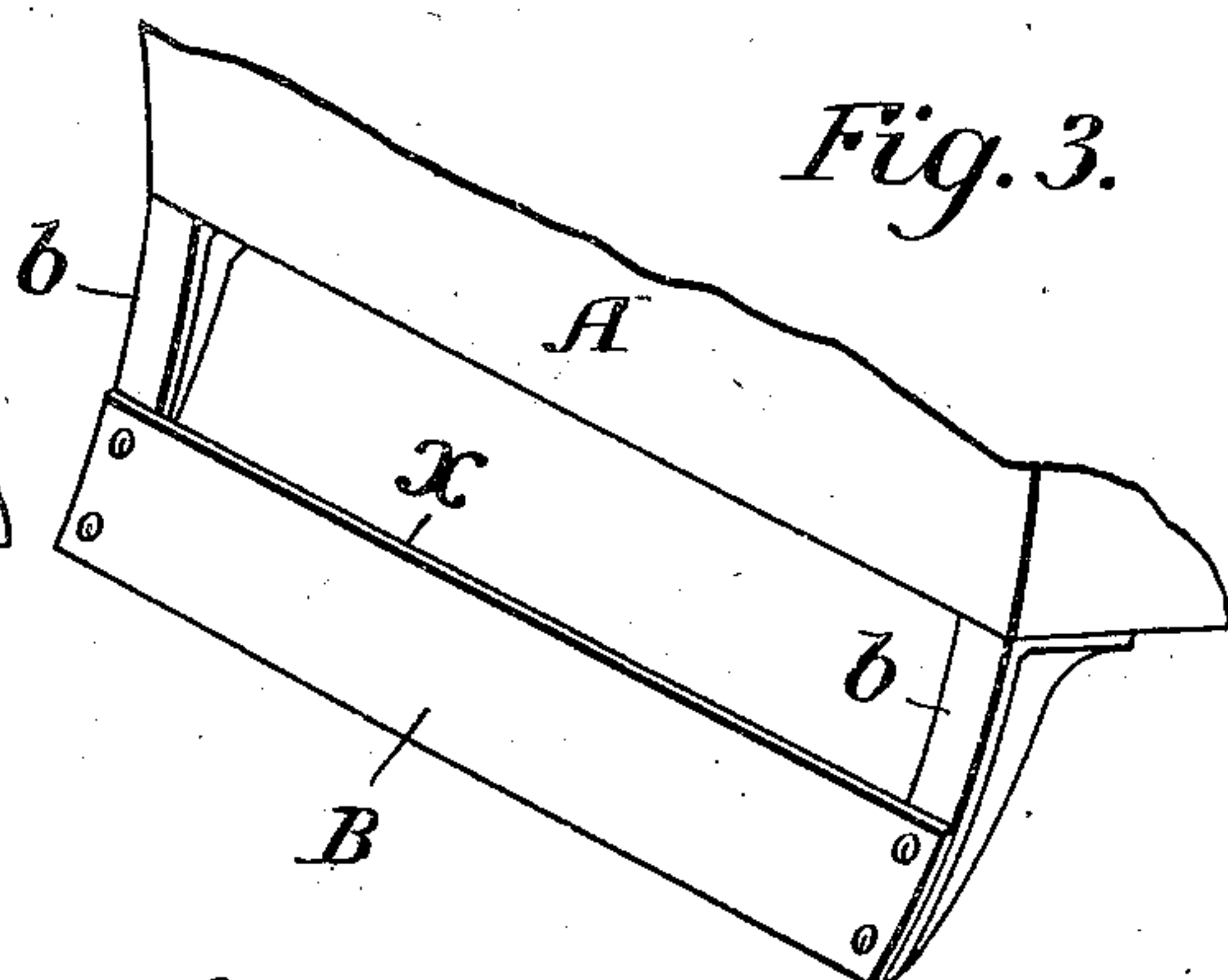
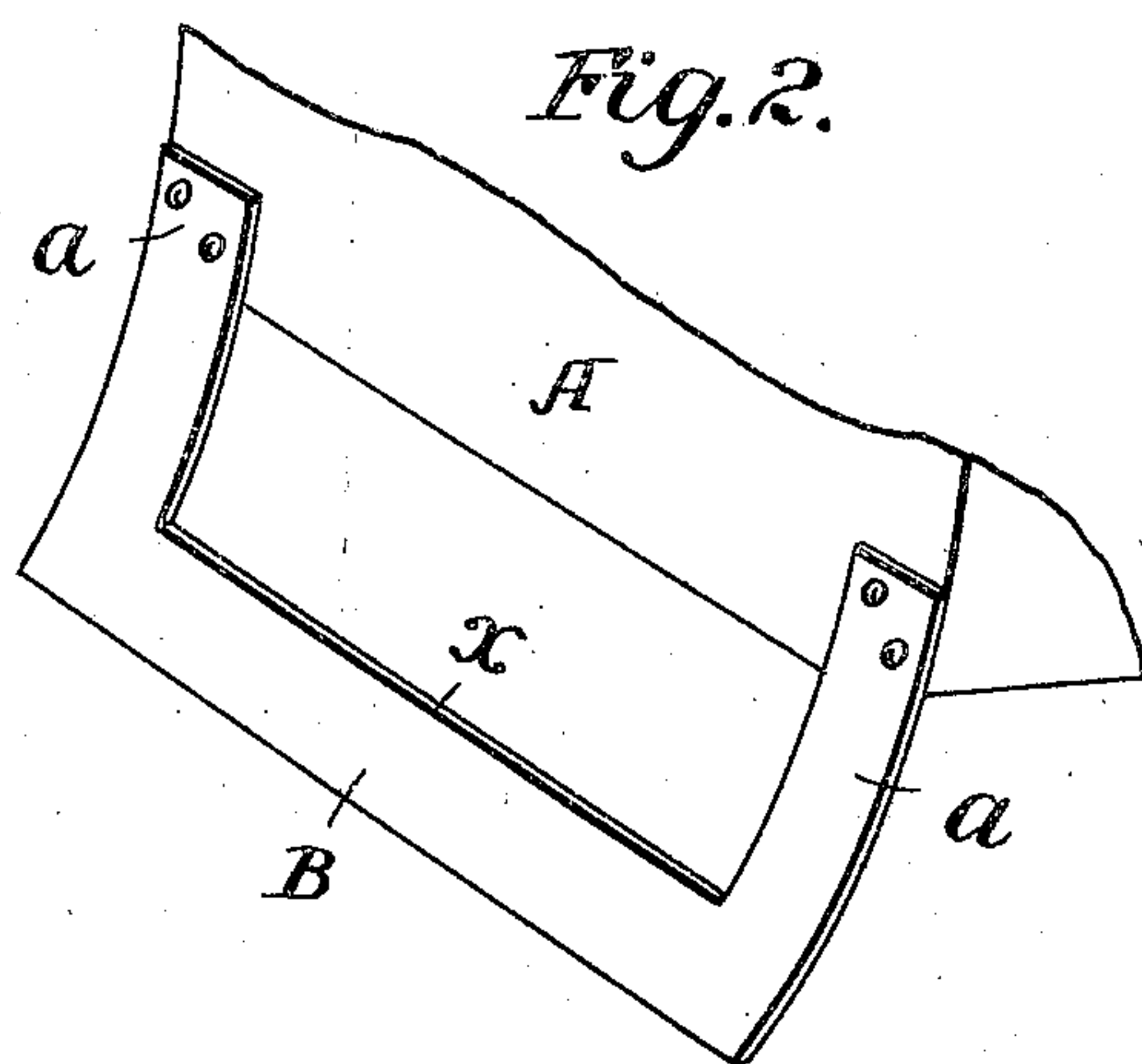
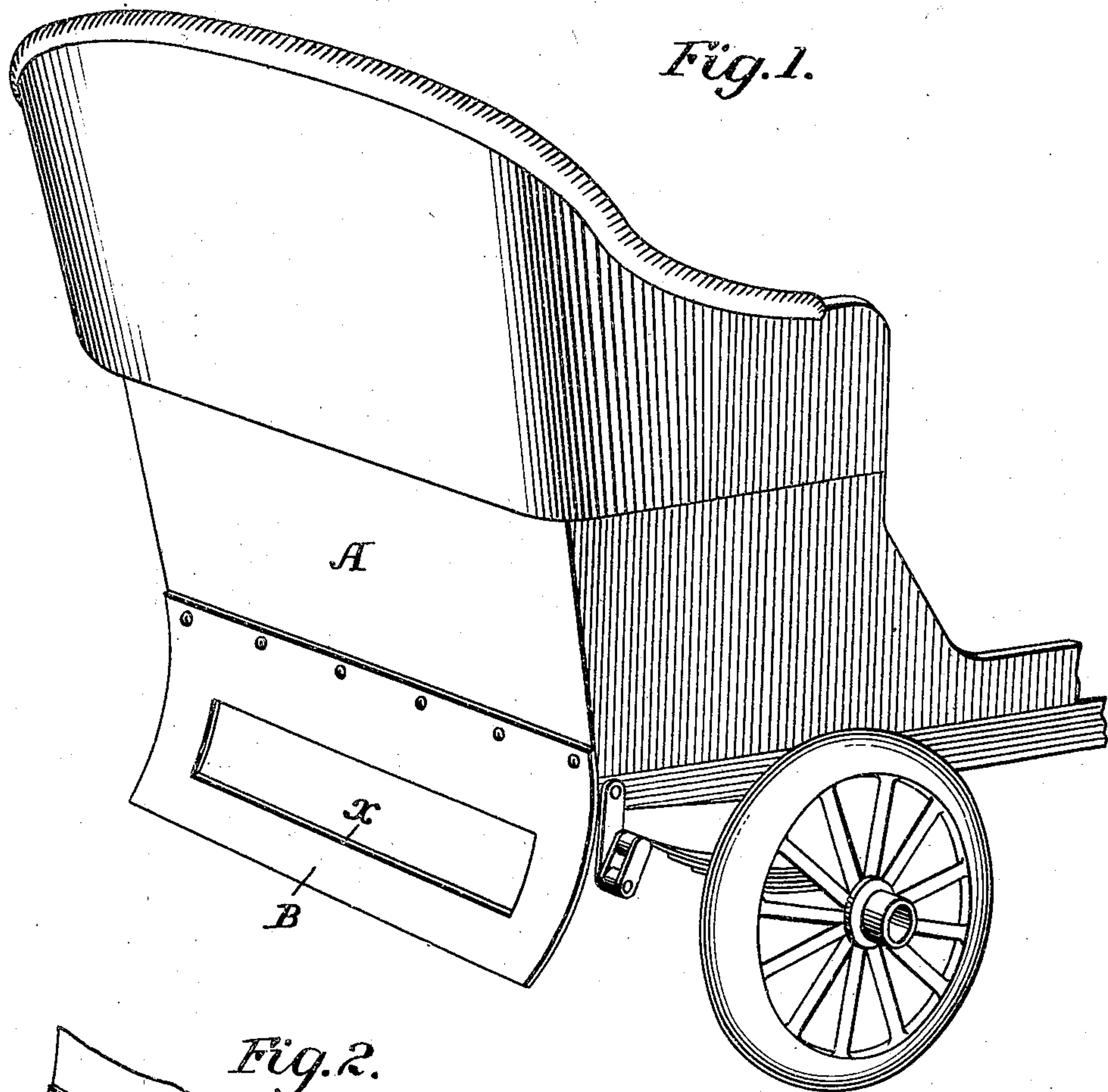


No. 843,072.

PATENTED FEB. 5, 1907.

D. C. COLLIER.  
DUST GUARD FOR AUTOMOBILES.  
APPLICATION FILED JUNE 23, 1906.



Witnesses  
*J. J. Stink*  
*J. J. McCarthy*

*David C. Collier* Inventor  
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Attorneys



# UNITED STATES PATENT OFFICE.

DAVID C. COLLIER, OF SAN DIEGO, CALIFORNIA.

## DUST-GUARD FOR AUTOMOBILES.

No. 843,072.

Specification of Letters Patent.

Patented Feb. 5, 1907.

Application filed June 23, 1906. Serial No. 323,104.

*To all whom it may concern:*

Be it known that I, DAVID C. COLLIER, a citizen of the United States, residing at San Diego, in the county of San Diego and State of California, have invented certain new and useful Improvements in Dust-Guards for Automobiles, of which the following is a specification.

My invention has for its object to prevent the dust which results from the movement of an automobile over a dusty road from being thrown upward so as to be deposited upon the rear seat and its occupants; and my invention consists in providing the car at the rear with a deflector-blade arranged below and at an angle to the bottom of the car with a space between the upper edge of the blade and the car, as fully set forth hereinafter and as illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of the rear portion of the car-body with my improved deflector; Fig. 2, a similar view showing another form in which the deflector may be constructed and applied, and Fig. 3 a view illustrating another construction of my improved deflector.

The deflector B is applied to the car-body A below the bottom of the latter and at an angle thereto, extending backward, so that the forward movement of the car-body will tend to cause the deflector to deflect the air downward below the car. The deflector, however, does not extend upward to the level of the bottom of the car; but the upper edge  $\alpha$  is below the plane of the said bottom. This deflector-blade B may constitute part of a continuous plate having an oblong opening, as shown in Fig. 1, the upper portion of the plate being secured to the rear of the body, or the plate may be cut from a piece so as to leave two arms  $a$  for connecting it to the rear of the body, as shown in Fig. 2, or the plate may be a single curved or inclined strip, the ends of which are secured to brackets  $b$ , connected to the body, as shown in Fig. 3.

It will be seen that in either construction the plate is inclined backward and the upper

edge is below the level of the bottom of the car-body, and I have found by extended use that the said deflector results in preventing the dust arising from the movement of the vehicle from being carried upward above the level of the bottom of the body, this apparently resulting from the fact that the space or opening above the upper edge  $\alpha$  permits a current which deflects the air, causing it to pass downward and deposit the dust either upon the blade B or carry it through the opening above the blade and downward to the road.

In the construction shown in Fig. 1 the deflector consists, practically, of two separate sections with an intervening opening, the upper section constituting, in effect, a separate inclined blade  $b$ , extending below the car-body and aiding in deflecting the air and dust. The deflector may be flat and inclined or curved in cross-section, as shown.

Without limiting myself to the construction shown, I claim as my invention—

1. A deflector for vehicles consisting of a blade, and means for connecting the same to the vehicle in a position below and inclined backward thereto with a space between the upper edge of the blade and the body.

2. The combination with the body of a vehicle, of a transverse blade inclined backward and supported with its upper edge below the body of the car, substantially as set forth.

3. The combination of the car and a deflector extending down and back and with an oblong opening therein below the bottom of the car.

4. The combination with a car, of a deflector below the car and back of the same and having two rearwardly-inclined portions separated from each other.

In testimony whereof I affix my signature in presence of two witnesses.

DAVID C. COLLIER.

Witnesses:

F. L. FREEMAN.

B. C. RUST.