

No. 728,445.

PATENTED MAY 19, 1903.

E. P. CURREY.
PLOW.

APPLICATION FILED JUNE 9, 1902.

NO MODEL.

2 SHEETS—SHEET 1.

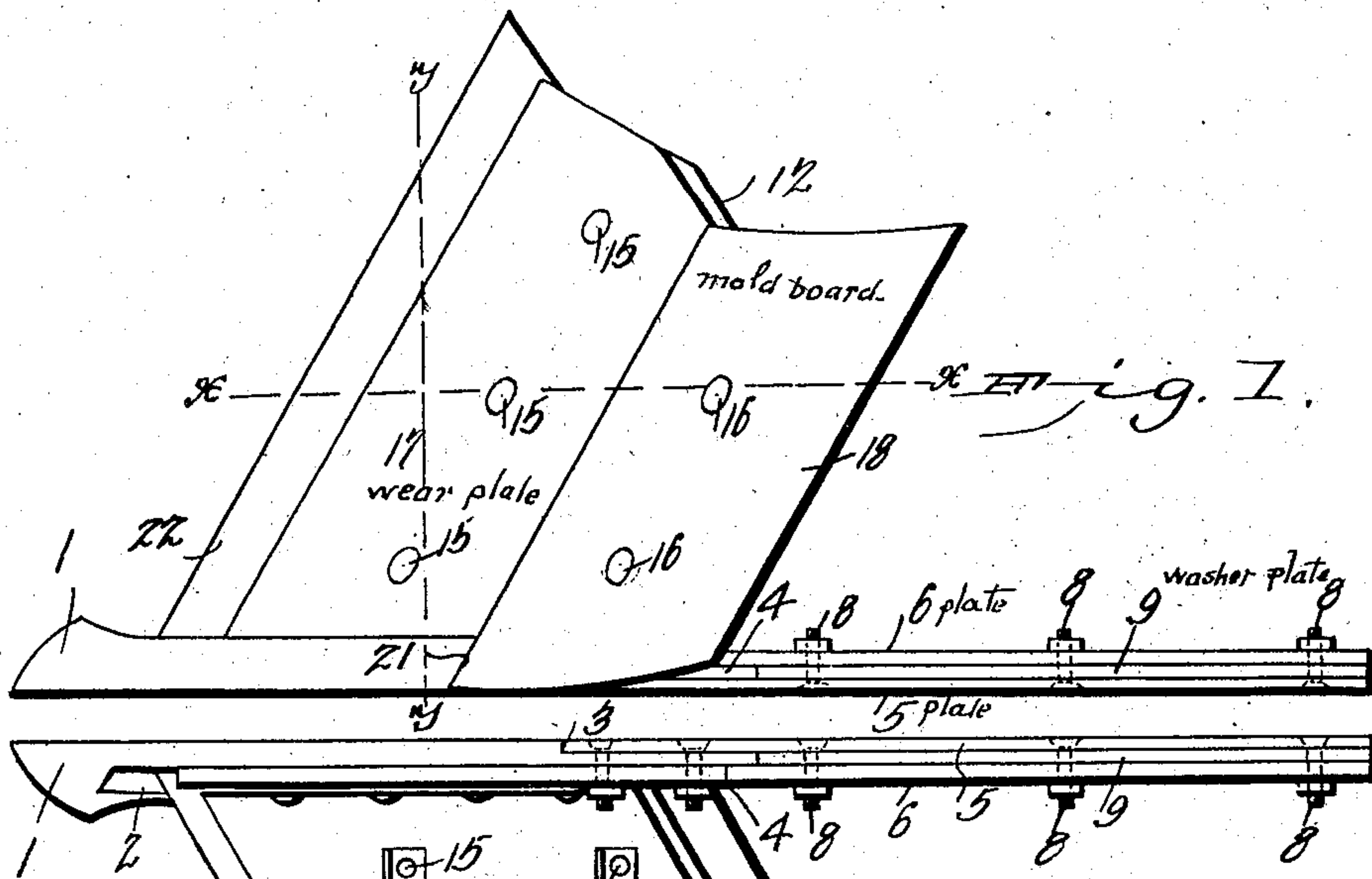


Fig. 1.

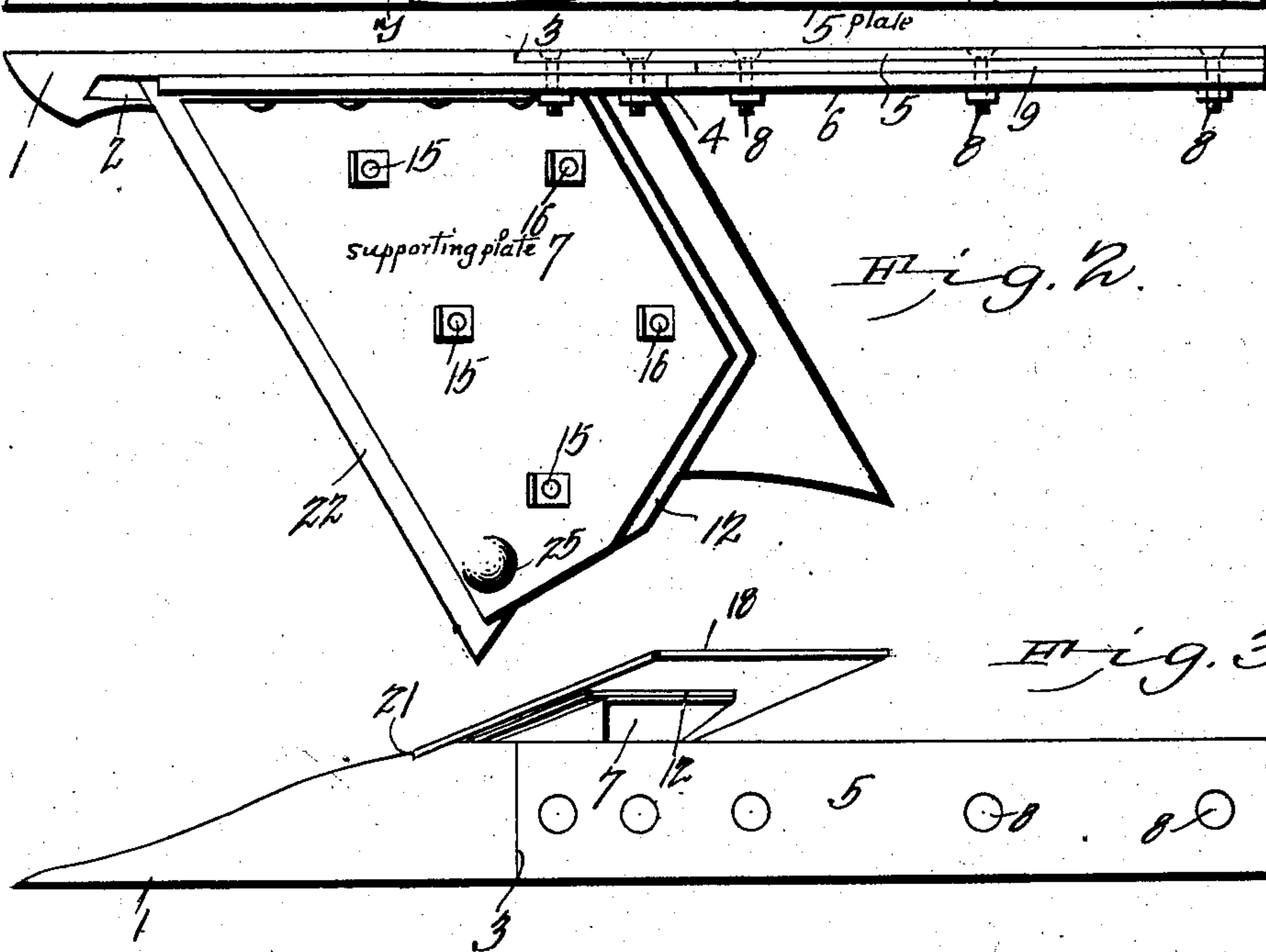


Fig. 2.

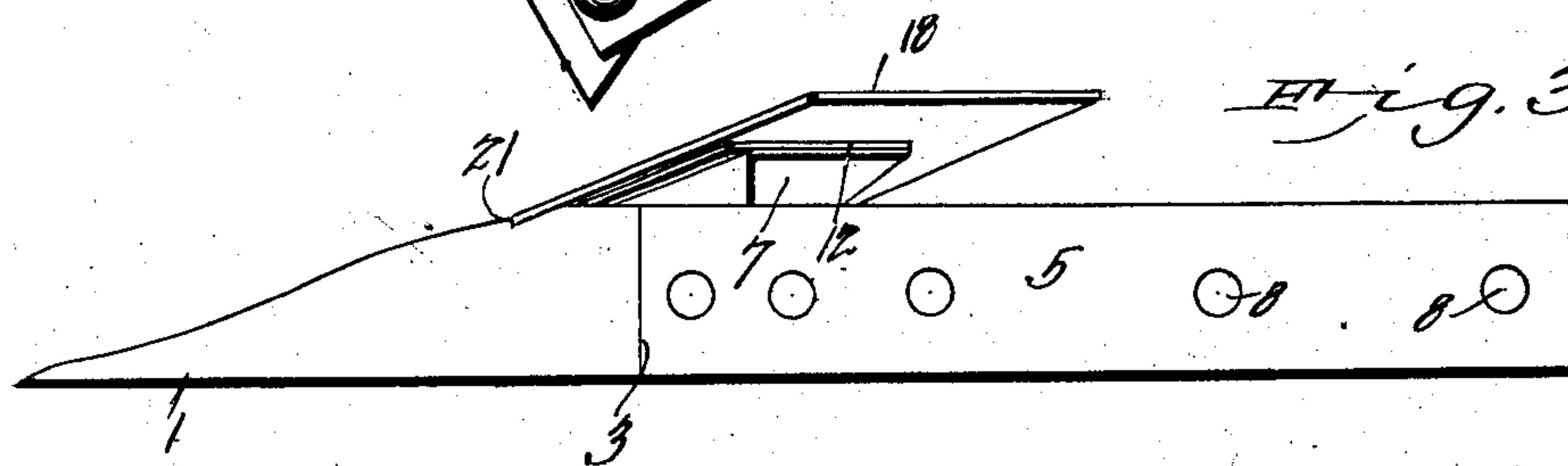


Fig. 3.

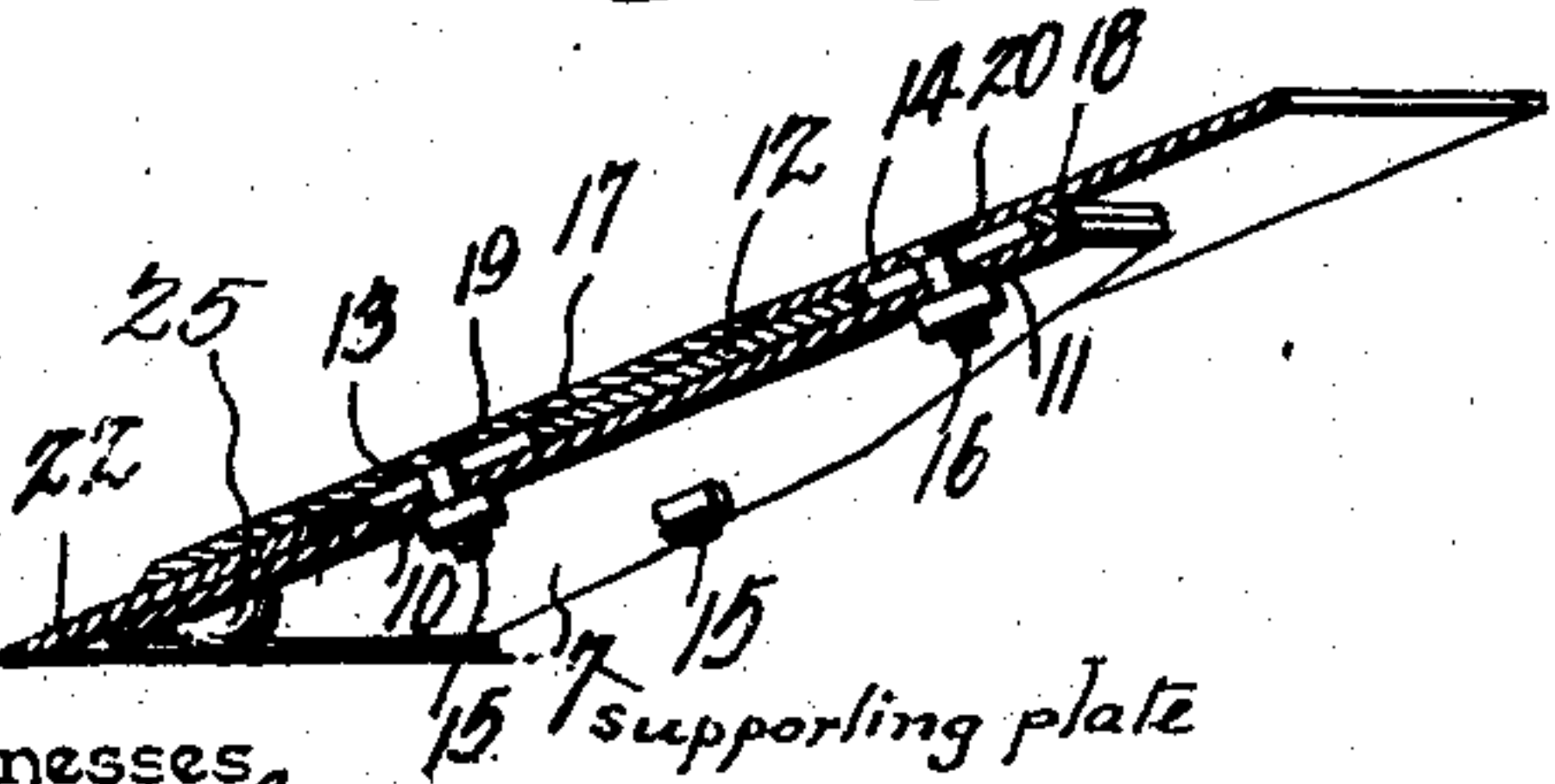


Fig. 4.

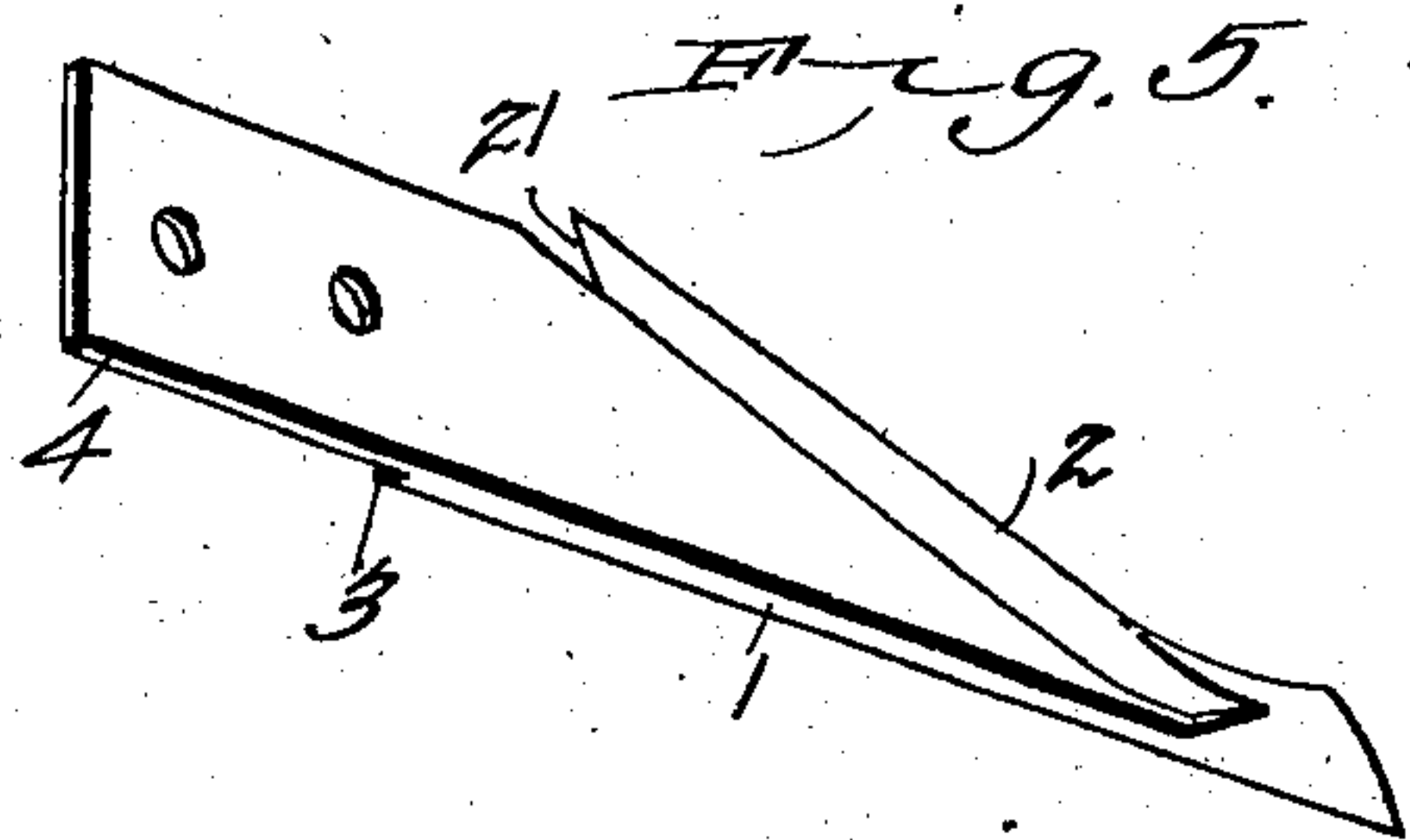


Fig. 5.

Witnesses
E. P. Currey
Wm. Bagger

E. P. Currey, Inventor.
by C. A. Snow & Co.
Attorneys

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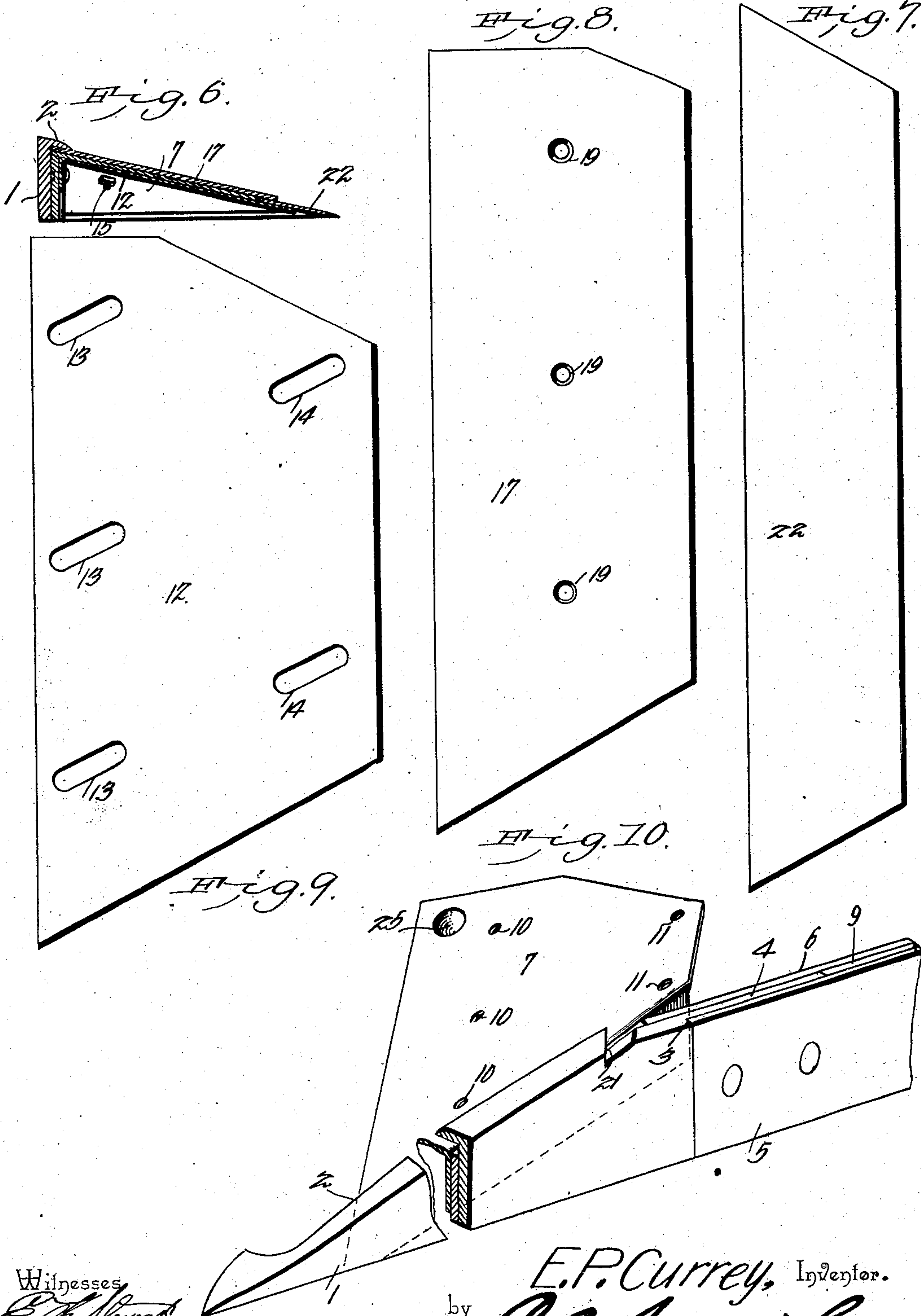
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Witnesses
E. H. Stewart
Wm. Baggett

by

E. P. Currey, Inventor.
C. A. Snow & Co.
Attorneys

UNITED STATES PATENT OFFICE.

ENOS P. CURREY, OF WOODWARD, OKLAHOMA TERRITORY.

PLOW.

SPECIFICATION forming part of Letters Patent No. 728,445, dated May 19, 1903.

Application filed June 9, 1902. Serial No. 110,874. (No model.)

To all whom it may concern:

Be it known that I, ENOS P. CURREY, a citizen of the United States, residing at Woodward, in the county of Woodward, Oklahoma Territory, have invented a new and useful Plow, of which the following is a specification.

This invention relates to plows; and it has for its object to provide a device of this class in which the component parts shall be capable of desired adjustment with relation to each other, in which the lay or share shall be capable of being reversed, so that either side may be exposed to wear, thus increasing the life of this part, and in which that part of the landside which is most exposed to wear may be readily detached and replaced as occasion shall require.

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 accompanying drawings, Figure 1 is a top plan view of the plow constructed in accordance with my invention. Fig. 2 is a bottom plan view of the same. Fig. 3 is a side view showing the landside of the plow. Fig. 4 is a longitudinal sectional view taken on the line *xx* in Fig. 1. Fig. 5 is a perspective detail view showing the plow-point detached. Fig. 6 is a transverse sectional view taken on the line *yy* in Fig. 1. Fig. 7 is a plan view of the share or lay detached. Fig. 8 is a plan view showing the wear-plate detached. Fig. 9 is a plan view showing the adjusting-plate detached. Fig. 10 is a detail view showing a portion of the front end of the landside with the supporting-plate attached thereto. Figs. 7, 8, 9, and 10 have been shown enlarged.

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

1 designates the point of my improved plow, from the upper edge of the side of which adjoining the land a wing or flange 2 extends laterally, as shown. That portion of the point which adjoins the land is provided near its rear end with a shoulder 3, from which a bracket 4 extends in a rearward direction, as shown. To the opposite sides of this bracket are secured plates 5 and 6, the outer one of which, 5, constitutes the landside proper. The inner plate 6 is extended forwardly under the

wing 2 of the point, and it carries the laterally-extending supporting-plate 7, which may be bolted or otherwise secured thereto and which serves to support parts of the plow to be hereinafter described. The plate 6 is extended rearwardly to the terminal point of the plate 5, with which it is connected by means of bolts 8, a washer-plate 9 being interposed between the two in order to insure the necessary strength and rigidity of the device. It will be seen that by this manner of construction the plate 5, which constitutes the landside, may readily be detached and replaced when desired.

The supporting-plate 7 is provided with two rows or series of perforations designated, respectively, 10 and 11, and upon the top side of said supporting-plate is mounted what I term the "adjusting-plate" 12, which is provided with two rows or series of inclined slots designated, respectively, 13 and 14, and which said slots are so disposed as to register with the perforations 10 and 11 in the supporting-plate. The inner edge of this adjusting-plate extends under the wing or flange 2 of the landside, which said wing or flange also forms a guard for the front end of the plate 6, carrying the supporting-plate 7. The adjusting-plate is connected with the supporting-plate by means of two rows or series of bolts designated, respectively, 15 and 16, the lower ones of which, 15, extending through the slots 13 and perforations 10 also serve to secure the wear-plate 17, which is mounted upon the upper side of the adjusting-plate in such a manner as to extend below the lower edge of the latter. The bolts 16, which extend through the upper slots 14 of the adjusting-plate and through the perforations 11 of the supporting-plate, also serve to secure in position the moldboard 18, which is so shaped and disposed that its lower edge shall abut squarely against the upper edge of the wear-plate 17. The wear-plate 17 and moldboard 18 are provided, respectively, with perforations 19 and 20 to receive the connecting-bolts 15 and 16.

It will be seen by reference to the drawings that while the inner edge of the wear-plate is extended under the wing or flange 2 of the point the corresponding edge of the moldboard is extended above the said flange, the upper edge of which forms a shoulder 21, that

serves to support the corner of the lower edge of the moldboard.

It will be seen from the foregoing description that the part of my improved device which I have termed the "adjusting-plate" is fitted or mounted slidingly and adjustably, by reason of the slots formed therein, upon the bolts 15 and 16 and between the supporting-plate 7 on the one side and the moldboard 18 and wear-plate 17 on the other. It will also be observed that the lower edges of the wear-plate and the supporting-plate are extended below the lower edge of the adjusting-plate, even when the latter is at its lowest point of adjustment. It will furthermore be observed that the adjusting-plate serves to space the supporting-plate and the wear-plate from each other. This is to provide for the insertion between the said plates of the lay or share 22, the upper edge of which will abut, as shown, against the lower edge of the adjusting-plate, and the inner edge of which is extended under and protected by the wing or flange 2 of the point. The exact shape of the share will be understood by reference to Fig. 7 of the drawings, from which it will be seen that its upper and lower edges are parallel to each other, while the ends are cut off at corresponding angles, thus permitting said share to be reversed and either side thereof to be exposed to wear. Owing to the peculiar construction and arrangement of parts, as herein described, I find it unnecessary to use any bolts or other fastening devices for securing the share in its operative position, it being held firmly clamped between the lower edges of the supporting-plate and the wear-plate, its upper edge being abutted against the lower edge of the adjusting-plate, so as to prevent it from being displaced in an upward direction. The inner edge of said share is furthermore protected against displacement by the wing 2 of the point under which it extends.

By loosening the nuts upon the bolts 15 and 16 the position of the adjusting-plate may be changed so as to raise or lower its lower edge with relation to that of the supporting-plate. It will thus be seen that any desired portion of the share or lay may be exposed to wear; also, that when it has been partly worn the adjusting-plate may be lowered, so as to push or force the share in a forward or outward direction, thus compensating for wear upon the edge thereof.

The supporting-plate is provided at its outer lower corner with a depression or indentation 25, forming a bulb or enlargement upon the under side thereof, the said bulb forming an additional support to guide the plow while cutting the furrow. This method of construction is resorted to because the supporting-plate as well as the remaining parts of my improved device are in practice to be made of much lighter material than that which is usually employed in the construction of plows.

By the construction of the plow as hereinbefore described I am enabled to construct the same of extremely-light material, the heaviest part relatively being that which enters into the construction of the point and landside. These parts, which practically form the base or support of the device, should be made reasonably strong and heavy, the remaining parts—namely, the supporting-plate, the adjusting-plate, the wear-plate, the moldboard and the share—may all be made extremely light, a construction which is made possible by the peculiar method of connecting and bracing the parts which have hereinbefore been described and which may be said to constitute the gist of my invention.

While I have in the foregoing described the preferred construction of my improved plow, I would have it understood that I do not wish to be regarded as limiting myself as to the details thereof, but reserve the privilege of making any changes and modifications which may be resorted to without departing from the spirit of my invention.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. A plow-point having a wing extending laterally at its upper edge from the side facing the land and provided with a rearward-extending bracket, substantially as set forth.
2. A plow-point having a wing extending at its upper edge from the side facing the land and provided with a rearward-extending bracket and with a vertical shoulder adjacent to said bracket upon the side facing the land, substantially as set forth.
3. A plow-point having a wing extending laterally at its upper edge from the side facing the land and provided with a rearward-extending bracket in combination with a land-side connected detachably with said bracket, substantially as set forth.
4. A plow-point having a wing extending laterally at its upper edge from the side facing the land and provided with a rearward-extending bracket in combination with plates secured to the opposite sides of said bracket, an interposed washer-plate in rear of said bracket, and connecting means, substantially as set forth.
5. A plow-point having a wing extended laterally at its upper edge from the side facing the land and provided with a rearward-extending bracket in combination with a plate connected detachably with said bracket and carrying a supporting-plate, the attached edge of which extends under the wing of the point, substantially as set forth.
6. A plow-point having a wing extending laterally at its upper edge from the side facing the land in combination with a plate secured detachably to the inner side of said point and carrying the supporting-plate, the attached edge of which extends under the wing of the point, and an adjusting-plate

mounted adjustably upon said plate and having its inner edge extended under the wing of the point, substantially as set forth.

7. The combination of a plow-point, a plate 5 secured to the inner side of the same and carrying a supporting-plate, a moldboard and a wear-plate connected with said supporting-plate with their adjacent edges abutting against each other, and an intermediate plate 10 mounted adjustably between the supporting-plate on the one side and the moldboard and wear-plate on the other side, substantially as set forth.

8. The combination of the supporting-plate 15 with the moldboard and wear-plate connected therewith and having their adjacent edges abutted against each other, and a wing projecting or extending laterally from the plow-point over the wear-plate and having at its 20 upper edge a shoulder supporting the lower edge of the moldboard, substantially as set forth.

9. In a plow, the combination of the supporting-plate, a moldboard and a wear-plate 25 connected with said supporting-plate with their adjacent edges abutted against each other, an adjusting-plate interposed, and held adjustably between, the supporting-plate on one side and the moldboard and wear-plate 30 on the other side, connecting means, and a lay or share clamped between the supporting-plate and the wear-plate and having its upper edge abutted against the adjusting-plate, substantially as set forth.

35 10. The combination of the plow-point having a wing extending laterally at its upper edge from the side facing the land with a plate secured to the inner side of said point and having a supporting-plate the attached edge 40 of which extends under the wing of the point, a moldboard and a wear-plate connected with said supporting-plate and having their adjacent edges abutted against each other, an adjusting-plate interposed between said sup- 45 porting-plate on the one side and the moldboard and wear-plate on the other side, and

a reversible share clamped between the supporting-plate and the wear-plate with its upper edge abutted against the lower edge of the adjusting-plate, the inner edges of said 50 share and wear-plate being extended under the wing of the point, substantially as set forth.

11. In a plow, the combination of the point having a wing extending laterally at its up- 55 per edge from the side facing the land, of a plate secured to the inner side of said point, and a supporting-plate the attached edge of which extends under the wing of the point and the front outer corner of which is pro- 60 vided with a bulb or enlargement on its under side forming an additional support, substantially as set forth.

12. The combination with the landside, of the point and a supporting-plate, independ- 65 ently connected therewith, said point being provided with a wing extending laterally at its upper edge from the side facing the land and having a shoulder formed at the upper edge thereof, the moldboard and wear-plate 70 connected independently with the supporting-plate and having their adjacent edges abutting against each other, the inner edge of the wear-plate being extended under the wing of the point and a corner of the mold- 75 board being supported upon the shoulder formed at the upper edge of the wing of said point, and a lay or share clamped, and held detachably between the supporting-plate and the wear-plate with its upper edge abutted 80 squarely upon an interposed plate held adjustably between the supporting-plate on the one side and the moldboard and wear-plate on the other side, substantially as set forth.

In testimony that I claim the foregoing as 85 my own I have hereto affixed my signature in the presence of two witnesses.

ENOS P. CURREY.

Witnesses:

H. C. IRWIN,
J. A. PATTON.