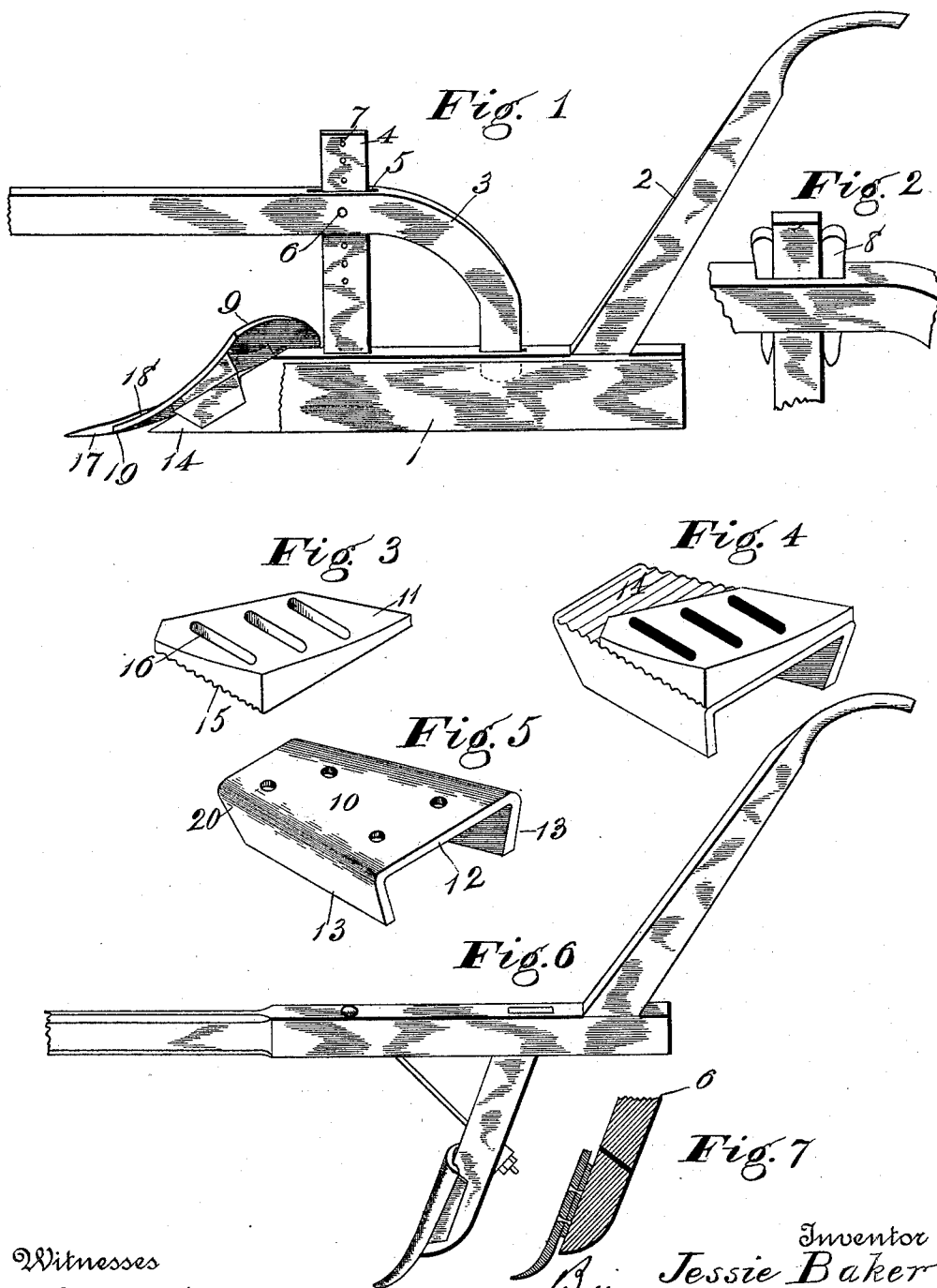


(No Model.)

J. BAKER.
PLOW.

No. 584,256.

Patented June 8, 1897.



Witnesses

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UNITED STATES PATENT OFFICE.

JESSIE BAKER, OF EL PASO, TEXAS.

PLOW.

SPECIFICATION forming part of Letters Patent No. 584,256, dated June 8, 1897.

Application filed March 5, 1897. Serial No. 626,023. (No model.)

To all whom it may concern:

Be it known that I, JESSIE BAKER, a citizen of the United States, residing at El Paso, in the county of El Paso and State of Texas, have
5 invented certain new and useful Improvements in Plows; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable
10 others skilled in the art to which it appertains to make and use the same.

My invention appertains to certain new and useful improvements in plows, and has particular reference to means which will enable
15 the operator to readily so adjust the moldboard or shovel into any desired inclination as may be deemed productive of the best result.

The object of my invention is to provide
20 a plow of simplified though reliably-efficient construction, being more especially applicable for plowing in closely-packed earth of tenacious consistency, where a plow of great strength is absolutely essential.

While my invention will be found desirable
25 when applied to the regulation of the ordinary cultivator or shovel-plow, it is more particularly valuable when used upon what is termed a "breaking-plow."

The details of my invention will be fully
30 described in the following specification, illustrated in the accompanying drawings, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a perspective view of my invention applied
35 to use. Fig. 2 is a varied form of construction for holding the beam and standard in operative combination. Fig. 3 is a perspective detail of the adjustable wedge. Fig. 4 is a perspective detail of the wedge shown in
40 Fig. 3 as applied to use upon the clamp. Fig. 5 is a modified form of clamp. Fig. 6 shows my invention as applied to a shovel-plow or cultivator. Fig. 7 is a vertical section of part of Fig. 6.

45 The various elements of my invention and the accessories necessary to place the same in operative combination will be designated by figures, each figure referring to a similar part throughout the several views.

50 In materializing my invention I provide the base-block or body 1, having the operating-handle 2, the usual draft-beam 3, and the ad-

justing-standard 4 therefor mounted in said body and permanently affixed thereto in a vertical position. It will be seen that said
55 beam is provided with a slotted aperture 5, designed to receive the upper end of the standard 4 and adjustably affixed with relation thereto by means of the pin 6, adapted to take
60 through one of the series of apertures 7, provided in said standard. If deemed a better construction, said pin may be dispensed with and the retaining-wedges 8 substituted therefor, as shown in Fig. 2.

The essential feature of value of my invention
65 consists in providing for the moldboard 9 the clamp 10 and the interposed adjusting-wedge 11. (Fully illustrated in Fig. 3.) The clamp 10 consists of a piece of suitable material so formed as to provide the tapering body
70 12, having the lateral flanges 13, between the inner walls of which the tapered nose 14 of the base 1 is entered, and it will be readily seen that the opening or seat presented for
75 the nose being tapered or narrowed at its lower part said nose will be snugly received thereby, becoming more firmly secured in proportion to the amount of pressure brought to bear thereon during the process of plowing.

The outer surface of the tapered section 10
80 may be left entirely smooth, though I prefer to provide thereon a series of transversely-disposed corrugations 14, substantially as shown in Fig. 4, designed to receive the corrugated face 15 upon the adjusting-wedge 11.

85 It will be observed that the wedge 11 is provided with a series of slotted apertures 16, through which the securing-bolts, reaching from the outer face of the moldboard to the inner face of the body of the clamp, extend.

90 Retaining-bolts having the usual countersunk head for the moldboard and threaded nuts may be employed to hold the several parts in their operative positions, though if preferred the parts may of course be permanently secured together by suitable rivets.

95 In constructing the moldboard 9 I prefer to extend the lower edge thereof well downward toward the bottom of the furrow and provide therefor the share 17, having the
100 overlapping tapered flange 18, a side elevation of which is clearly shown in Fig. 1. By thus extending the lower edge of the moldboard downward and providing the overlap-

ping flange much greater strength is added to the parts, as the lower edge of said moldboard is seated against the offset or shoulder 19, formed upon the lower side of said share.

5 By the construction herein set forth it will be seen that I have provided an adjusting device for moldboards and shovel-plows that will reliably perform its office. It will be further observed that the parts may be readily and cheaply manufactured and assembled
10 in their respective operative positions.

It will of course be understood that I have merely shown the preferred form of construction for the various parts and that any
15 equivalent thereof is comprehended by me, and I do not therefore wish to be confined strictly to the showing I have made.

The operation of my improved adjustable clamp may be stated to be as follows: The
20 moldboard, constructed substantially as set forth, is provided with suitable apertures, coinciding in position with the apertures 20, formed upon the clamp. The securing-bolts are entered into the slots 16, provided upon
25 the adjusting-wedge 11, and are designed to extend entirely through the clamp, where they may be secured by suitably-provided nuts therefor. Before the tightening process is completed the wedge is moved upward or
30 downward in accordance with the inclination which it is desired shall be imparted to the moldboard when the nuts upon the bolts are firmly turned home, thus reliably holding the parts together in such a manner that the
35 moldboard will present the desired inclination.

Having thus fully described the construction and operation of my invention, what I claim as new, and desire to secure by Letters
40 Patent, is—

1. As an improvement in plows, the combination with the moldboard, of a clamp

having a dovetail seat; an adjusting-wedge mounted between the moldboard and said clamp, and securing-bolts for holding the
45 parts in an adjustable position, substantially as described and for the purpose set forth.

2. As an improvement in plows, the herein-described adjustable clamp, consisting of the tapered body 10, having the integrally-formed
50 inwardly-inclined flanges 13, and the adjusting-wedge provided with slotted apertures, designed to move into an adjusted position, substantially as described and for the purpose set forth.

3. As an improvement in plows, the combination with the base having a tapered nose, of an operating-handle; a draft-beam; a supporting-standard for said beam; means for adjusting said standard with respect to the
60 beam; a clamp having a tapered seat, designed to receive said nose; an adjusting-wedge having a corrugated face designed to receive the corrugations upon said clamp; a moldboard and locking-bolts for binding the
65 clamp and wedge into operative combination, substantially as specified and for the purpose set forth.

4. As an improvement in plows, the combination with the moldboard, of a share, having a shoulder 19 and tapered flange 18, the
70 latter designed to overlap the lower end of said moldboard; a clamp having a tapered seat designed to receive the nose of the base and an adjusting-wedge interposed between
75 said clamp and moldboard and adjustably held in such position, substantially as described and for the purpose set forth.

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

JESSIE BAKER.

Witnesses:

SAM. A. DRURY,
J. EXLEY.