

No. 813,118.

PATENTED FEB. 20, 1906.

L. N. SCHULTZ.

PLOW.

APPLICATION FILED FEB. 13, 1905.

Fig. 1.

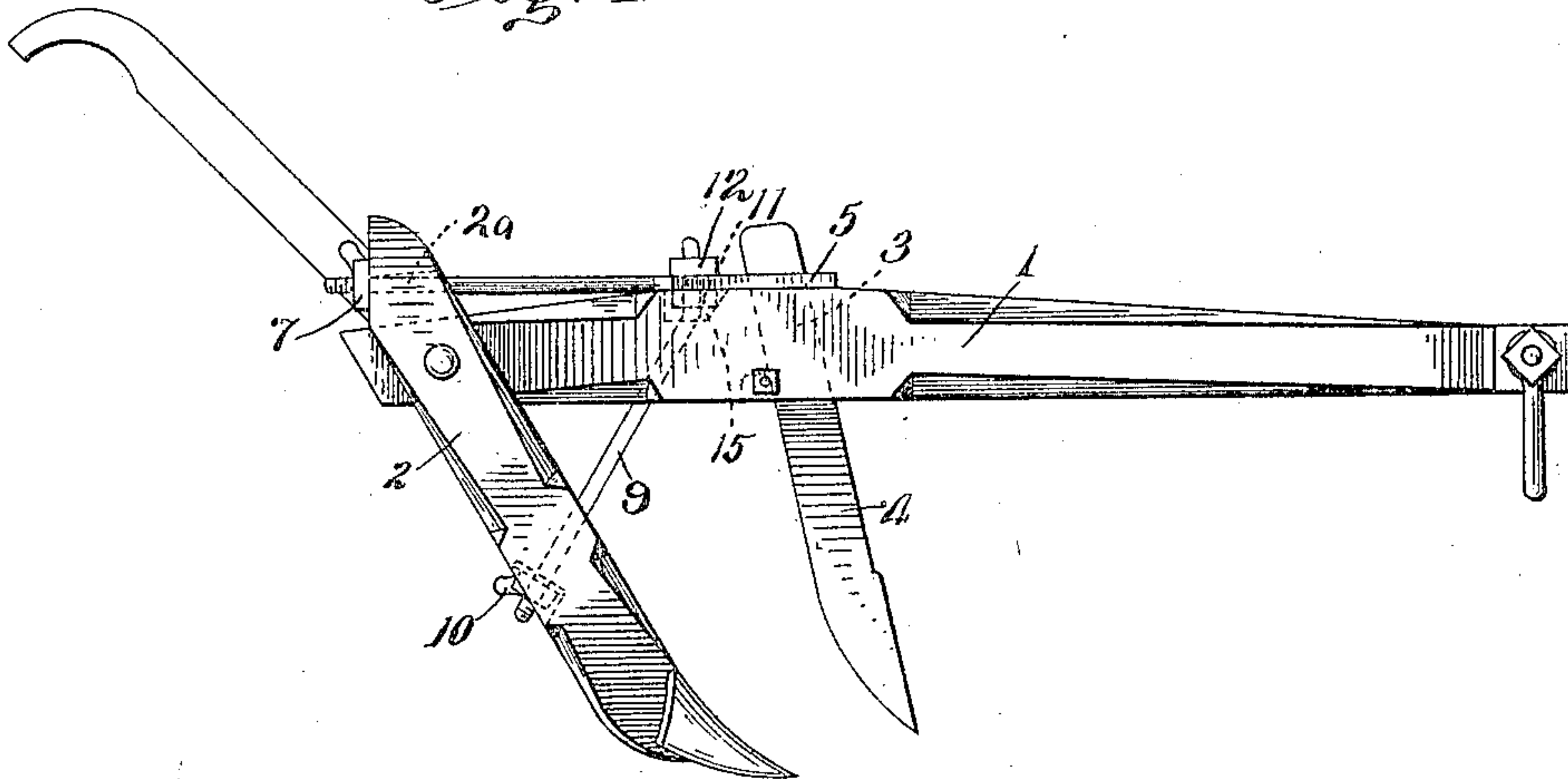


Fig. 2.

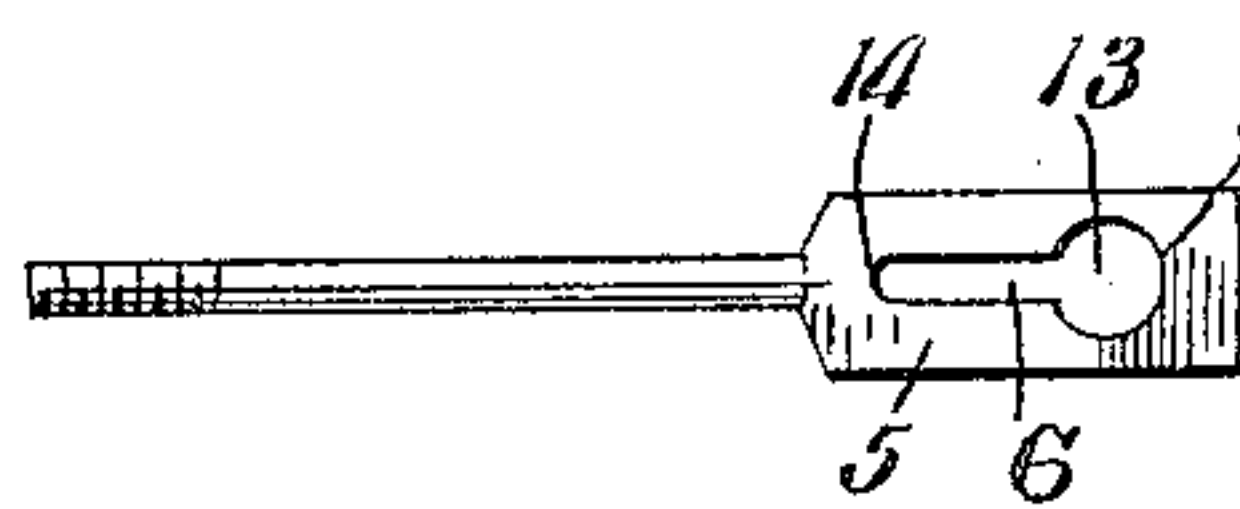


Fig. 3

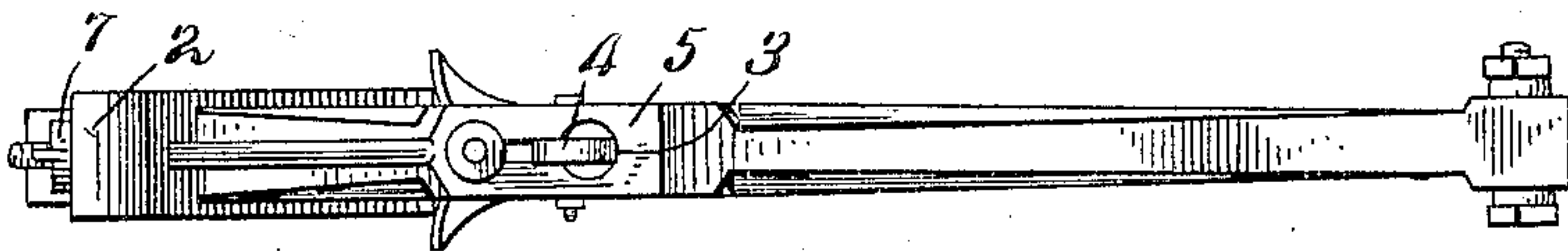


Fig. 4.

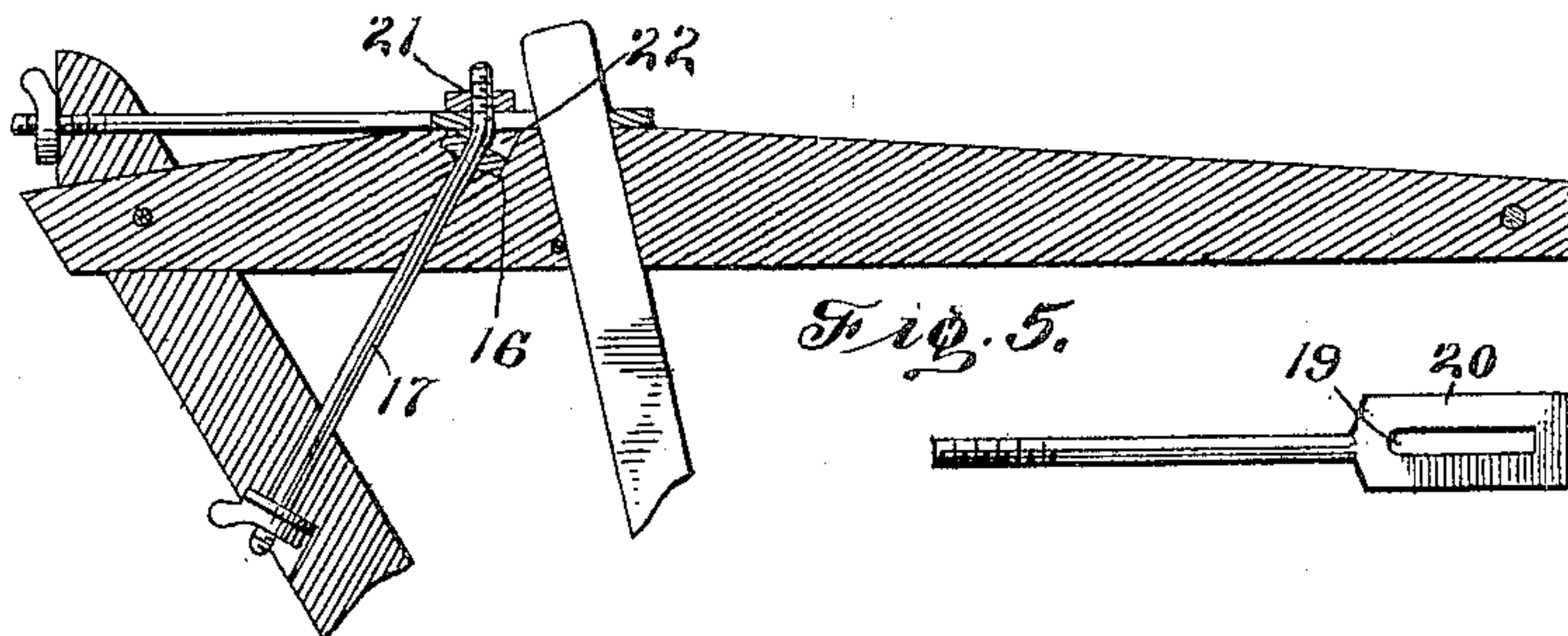
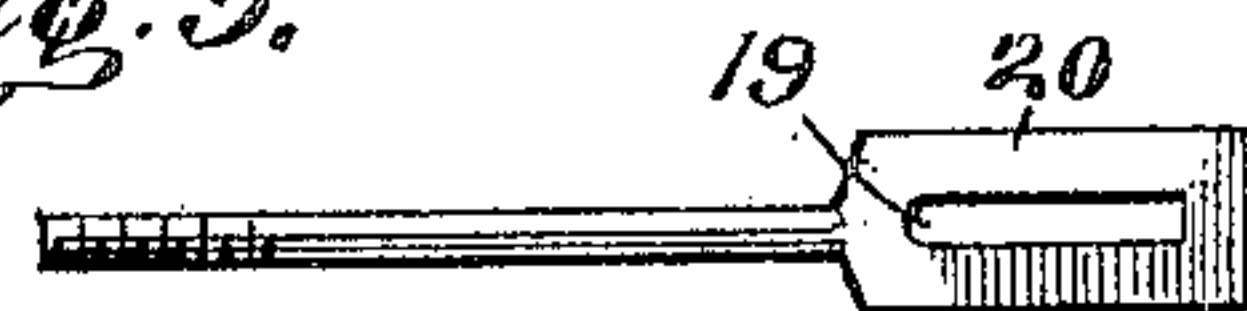


Fig. 5.



**Witnesses**

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# UNITED STATES PATENT OFFICE.

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## PLOW.

No. 813,118.

Specification of Letters Patent.

Patented Feb. 20, 1906.

Application filed February 13, 1905. Serial No. 245,497.

*To all whom it may concern:*

Be it known that I, LOUIS N. SCHULTZ, a citizen of the United States, residing at Oakland, in the county of Yalobusha and State of Mississippi, have invented certain new and useful Improvements in Plows, of which the following is a specification.

My invention relates to an improvement in plows; and it consists in the constructions, combinations, and arrangements herein described and claimed.

The objects of my invention are to provide an improved construction in which the colter can be adjustably secured to the plow-beam without undue strain on the plow-standard or other parts and in which the several parts are securely locked and braced in position.

In the accompanying drawings, forming a part of this application, and in which similar reference-numerals indicate corresponding parts in the several views, Figure 1 is a side elevation with one of the handles omitted for clearness, illustrating an embodiment of my invention. Fig. 2 is a plan view of the construction shown in Fig. 1, the handles being omitted. Fig. 3 is a detail plan view of the binding-plate shown in Fig. 1. Fig. 4 is a longitudinal sectional view illustrating another embodiment of my invention, and Fig. 5 is a detail plan view of the binding-plate shown in Fig. 4.

Referring to Figs. 1 and 2 of the drawings, 1 indicates a plow-beam carrying the standard 2 and provided with a slot 3, in which is slidably mounted a colter 4. A binding-plate 5 is adjustably mounted on the upper surface of the plow-beam and provided with a slot 6, through which the colter projects. Said plate is shown extending through a tapered or enlarged bore 2<sup>a</sup> in the standard 2 and carrying a lock-nut 7 for locking it with the forward end 8 of its slot in binding engagement with the colter. A brace 9, carrying a lock-nut 10 in engagement with the standard, is shown extending through said standard and provided at its upper end with two heads 11 and 12, engaging, respectively, the upper and lower surfaces of the binding-plate, the slot 6 being formed with an enlargement 13 to admit insertion of the head 12 therethrough. The brace 9 is shown extending angularly to the binding-plate 5 and having its upper portion, which carries the heads 11 and 12, bent perpendicular to said plate in position to engage the rear wall 14 of the slot 6 when the parts are locked in clamping

position. A recess 15 is provided in the plow-beam to permit free movement of the lower head 11 during the adjustment of said brace and plate. In adjusting the colter in this construction the lock-nuts 7 and 10 are loosened to permit sufficient adjustment of the brace 9 and binding-plate 5 for freeing the latter from the colter. The colter is shifted to the desired position in the slot 3 and the plate 5 adjusted by the nut 7 to bring the forward end 8 of its slot in binding engagement with the colter. The nut 10 is then tightened to draw the bent portion of the brace forcibly against the rear wall 14 of the slot, whereby the forward wall 8 of said slot is securely clamped against the colter with excessively greater pressure than could be produced by tightening the lock-nut 7. The lock-nut 7 is then finally tightened to take up any play due to movement of the binding-plate under such clamping action of the brace. In this final clamped and locked position of the parts the bent portion of the brace clamps the binding-plate against the colter with excessively greater force than is possible in previous constructions and positively and securely locks the plate in such clamping position by engaging the rear wall 14 of its slot. This construction has proven very advantageous in practice, since the bent portion of the brace 9 constitutes a wedge which engages the rear wall 14 of the slot, and thereby enables a strong clamping action to be obtained with relatively slight tension in the brace and plate. This permits the lock-nuts 7 and 10 to be readily adjusted by the operator and obviates undue strain on the plow-standard.

Figs. 4 and 5 illustrate a modified construction in which the inclined brace 17 is provided with a lower head 16 on its main portion and with an upper head 21 on its bent portion. Either or both of said heads may be threaded or otherwise adjustably mounted on the brace. In this modification the upper head 21 can be adjusted to bring it into proper engagement with the plate 20 when the lower head 16 is seated on the bottom of the recess 22 in the plow-beam, or both of the heads may be suitably adjusted to permit the desired clamping action of the brace 17 and to simultaneously seat said heads on the top of the plate 20 and bottom of the recess 22, respectively, when the parts are locked in clamping position, as shown in Fig. 4. The operation of this modification

is similar to that described in reference to Figs. 1 and 2 and need not be further referred to.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a plow, the combination of a standard, a slotted beam, a slotted binding-bar, a colter extending through the slots in said beam and bar, an adjustable brace provided with a wedge portion extending through the slot in said binding-bar and constructed to engage the rear wall of said slot for adjusting and positively locking said bar in clamping position, and a lock-nut for adjusting and locking said brace, substantially as described.

2. In a plow, the combination of a stand-

ard, a slotted beam, a slotted binding-bar, a colter extending through the slots in said beam and bar, an adjustable brace extending through the slot in said binding-bar and constructed to engage the rear wall of said slot for adjusting and positively locking said bar in clamping position, two heads carried by said brace in position to engage, respectively, said binding-bar and plow-beam, and a lock-nut for adjusting and locking said brace, substantially as described.

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

LOUIS N. SCHULTZ.

Witnesses:

JAMES MOORE,  
W. S. CRAIG.