No. 769,194. PATENTED SEPT. 6, 1904.

F. J. SMITH.

PLOW.

APPLICATION FILED APR. 6, 1904.

NO MODEL.

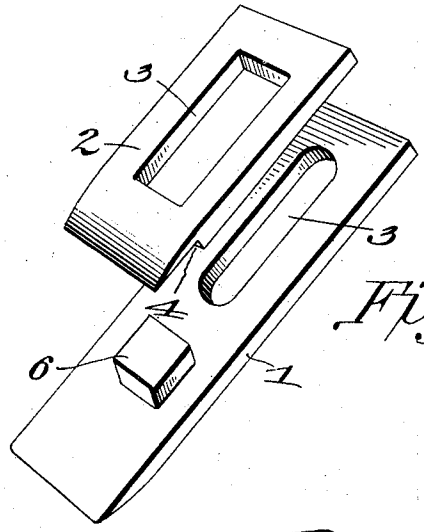


Fig. 1.

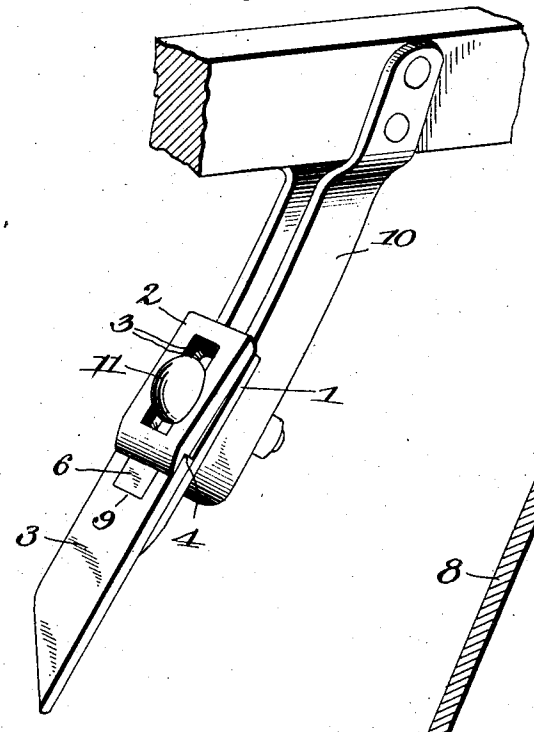


Fig. 2.

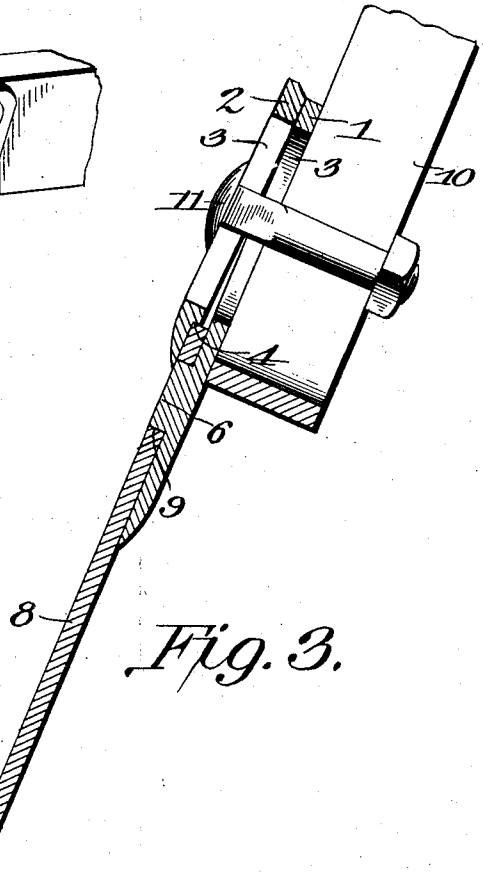


Fig. 3.

Witnesses
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No. 769,194.

Patented September 6, 1904.

UNITED STATES PATENT OFFICE.

FRANCIS J. SMITH, OF VINSON, GEORGIA.

PLOW.

SPECIFICATION forming part of Letters Patent No. 769,194, dated September 6, 1904.

Application filed April 6, 1904. Serial No. 201,873. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS J. SMITH, a citizen of the United States, residing at Vinson, in the county of Paulding and State of Georgia, have invented a new and useful Plow, of which the following is a specification.

This invention relates to plows of that class in which the point or earth-engaging element is connected by means of what is known as a "heel-bolt" with an ordinary vertically-slotted or bifurcated standard, the object of the invention being to increase the life of the plow by enabling the point or earth-engaging member to be used until a very small piece or stub remains.

With this end in view the invention consists in clamping means adapted to be connected directly with the plow-standard by means of the heel-bolt and adapted to clamp the point between them, so that said point may be extended sufficiently beyond the standard to enable it to operate efficiently as long as even a very short portion thereof remains.

The invention further consists in the improved construction and novel arrangement and combination of parts which will be hereinafter fully described, and particularly pointed out in the claims.

In the accompanying drawings has been illustrated a simple and preferred form of embodiment of the invention, it being understood, however, that I do not necessarily limit myself to the precise structural details therein exhibited, but reserve the right to such changes, alterations, and modifications as may be resorted to within the scope of the invention and without departing from the spirit or sacrificing the efficiency of the same.

In said drawings, Figure 1 is a perspective view illustrating the members constituting the invention separated from each other. Fig. 2 is a perspective view showing a portion of a plow to which my invention has been applied. Fig. 3 is a vertical sectional view taken through a plow-standard equipped with the invention.

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

The improved device which constitutes this invention includes a pair of clamping-plates—namely, a bottom plate 1 and a top plate 2. The bottom plate is longer than the top plate and extends below the lower edge of the latter, the upper edges of said plates being in registry with each other. Each of the plates 1 and 2 is beveled at its lower edge, the bevel of each plate being in the direction of the other plate, and the said plates are provided near their upper ends with longitudinally or vertically disposed slots 3, which are in alinement with each other. The upper plate 2 is provided in its under side, at the lower edge thereof, with a shouldered recess 4, and the under plate is provided with an upwardly-extending square stud 6, adapted to engage the bolt-hole of the plow-point.

8 designates the plow-point, which is of the ordinary construction and which is provided with a square perforation 9, which is normally intended for the passage of the heel-bolt, by means of which said point while in good condition is secured in operative position direct upon the bifurcated or slotted standard 10 depending from the plow-beam.

When the plow-point has been worn so short as to be under ordinary circumstances of no further use, it may be placed in engagement with the stud 6 upon the bottom plate 1 of the device. The top plate 2 is now adjusted in position in such a manner that the shouldered recess 4, at the lower edge thereof, shall engage the upper edge of the plow-point, and the bottom and top plates 1 2 are disposed in contact with the top or upper side of the plow-standard 10, the heel-bolt 11 being inserted through the slots 3 in the clamping-plate and through the standard and the nut tightened thereon. The clamping-plates 1 and 2 will thus not only be firmly secured in position upon the standard, but they will clamp between them with the utmost degree of security, the plow-point 8, which may now be extended any desired distance below the lower extremity of the standard, thus enabling it to be efficiently utilized until practically worn out.

Having thus described my invention, I claim—

1. The combination with a slotted plow-standard, of a pair of plow-point-engaging

clamping-plates having registering slots and beveled lower edges, one of said plates being extended below the other and provided with a plow-point-engaging stud.

2. A pair of plow-point clamping-plates having registering slots, one of said plates being extended below the other and provided with a plow-point-engaging stud and the shorter plate being provided near its lower edge with a shouldered recess adapted to engage the upper edge of a plow-point.

3. The combination with a bifurcated plow-standard, of a pair of longitudinally-slotted plow-point clamping-plates having beveled lower edges, one of said plates being extended below the other and provided with a plow-point-engaging stud and the other plate being provided near its lower edge with a plow-point-engaging recess, and a heel-bolt for clamping said plates adjustably upon the plow-standard, and compressing them upon a plow-point.

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

FRANCIS J. SMITH.

Witnesses:
O. R. SIMERVILLE,
M. D. MCGRIMS.