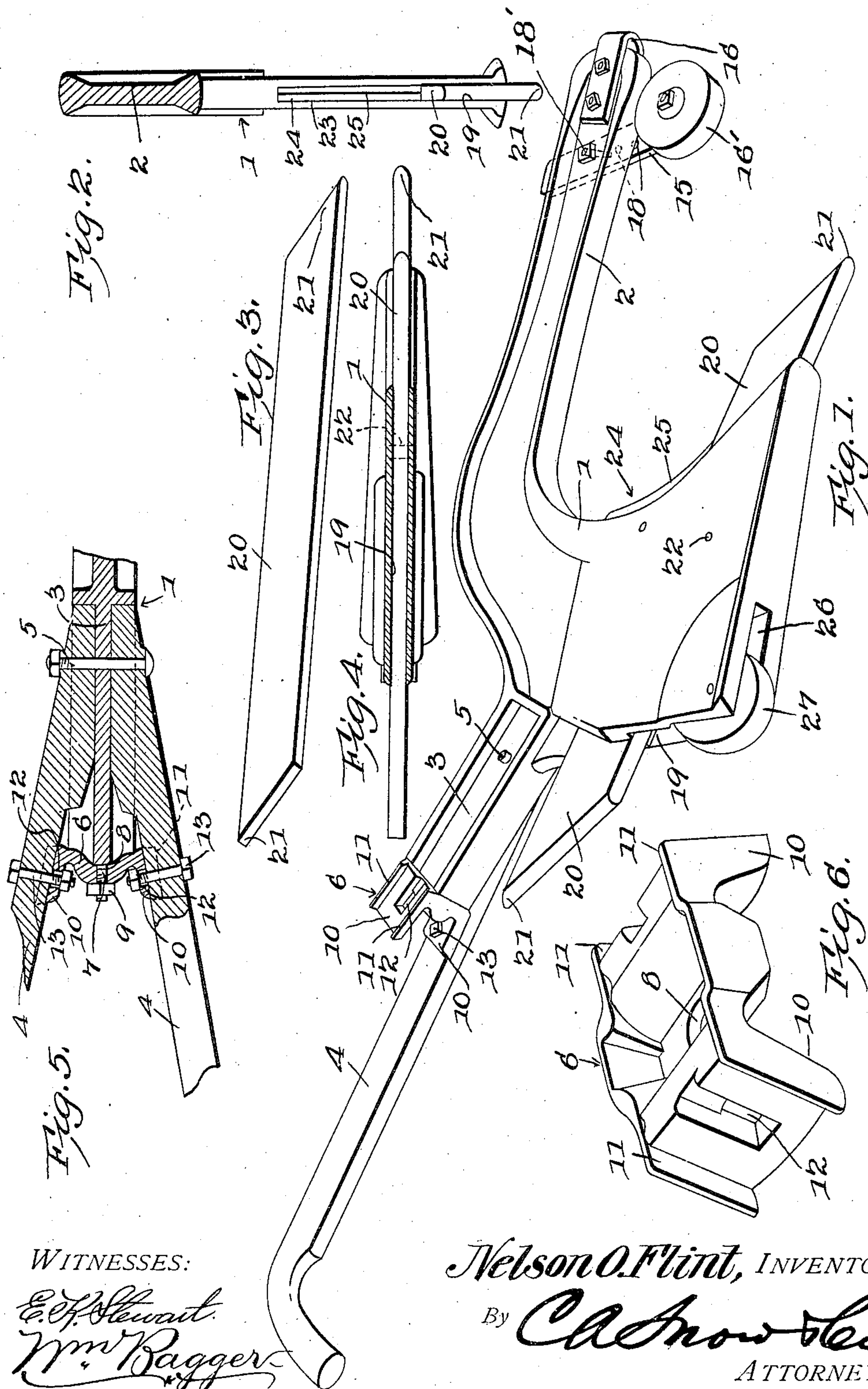


No. 844,112.

PATENTED FEB. 12, 1907.

N. O. FLINT.
 PLOW.

APPLICATION FILED FEB. 17, 1906.



WITNESSES:

E. F. Hewitt.
Wm Baggett.

Nelson O. Flint, INVENTOR.

By *C. Snow & Co*
ATTORNEYS

UNITED STATES PATENT OFFICE.

NELSON OZIAS FLINT, OF WALTON, NEW YORK.

PLOW.

No. 844,112.

Specification of Letters Patent.

Patented Feb. 12, 1907.

Application filed February 17, 1906. Serial No. 301,672.

To all whom it may concern:

Be it known that I, NELSON OZIAS FLINT, a citizen of the United States, residing at Walton, in the county of Delaware and State of New York, have invented a new and useful Plow, of which the following is a specification.

This invention relates to that class of plows which are used for the purpose of breaking hard ground; and the objects of the invention are to present a plow of this class of simple, efficient, and generally-improved construction.

With these and other ends in view the invention consists in a solid plow-body, which may be integral with the beam and which is provided with a central longitudinal aperture for the accommodation of a bar provided at the ends thereof with earth-engaging points, said bar being reversible end for end.

The invention further consists in the combination, with the improved plow, of a cutter or colter which shall be useful for the purpose of severing roots and for disposing of similar obstructions.

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 the invention, it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations, and modifications within the scope of the invention may be made when desired.

In the drawings, Figure 1 is a perspective view of a plow constructed in accordance with the principles of the invention, the near handle being partly broken away. Fig. 2 is a front view of the improved plow, the beam being shown in section. Fig. 3 is a perspective detail view of the reversible point. Fig. 4 is a horizontal sectional view. Fig. 5 is a sectional detail view taken through the handle-lug and the lower ends of the handles. Fig. 6 is a perspective detail view of the cap constituting the handle-spacing member detached.

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

The body 1 of the improved plow consists of a solid casting of forwardly-tapering shape

which is preferably formed integrally with the beam 2 and with a rearwardly-extending flanged lug 3, to which the handles 4 4 may be attached, as by means of a bolt 5, a spacing member 6 being interposed between the handles. Said spacing member consists of a cap fitted upon the rear extremity of the lug 3, which is provided with a rearward-extending bolt member 7, extending through an aperture 8 in the cap and having a tightening-nut 9 bearing against the latter, the cap 6 being provided with inclined side wings 10, having handle-engaging flanges 11 and provided with slots 12 for the passage of connecting-bolts 13.

The handles having been mounted in position may be secured very firmly by tightening the nut 9, whereby the cap member 6 will be forced down between the handles, said cap member constituting with its inclined side wings a wedge member whereby the handles are spread apart and tightened at the point where they are connected with the plow. The front end of the beam has been shown as provided with an integral loop 16 for the draft attachment, and upon said beam is adjustably mounted a supporting-bar 15 for a gage-wheel 16', which is capable of vertical adjustment, the bar 15 being provided with a plurality of apertures 18 for the passage of the bolt or securing member 18'.

The body of the plow is provided with a longitudinal opening 19, which inclines upwardly and rearwardly from the point in the direction of the handle-supporting lug 3. This opening is for the reception of the reversible steel bar 20, which is provided at the ends thereof with points 21 of any suitable construction. The bar 20 may be secured in operative position by means of a pin or key 22, extending transversely through the plow-body. At the front edge of the plow-body is formed a recess 23 for the reception of steel colter or cutter 24, having a sharp protruding cutting edge 25 and the lower end of which lies in contact with the upper edge of the bar 20.

The under side of the plow-body is provided at its heel end with a recess 26 for the accommodation of a ground-engaging wheel or roller 27, which when the plow is in operation rides in the bottom of the furrow.

From the foregoing description, taken in connection with the drawings hereto annexed, the operation and advantages of this improved plow will be readily understood. The

construction, as will be seen, is extremely massive and durable, so that the plow may be successfully employed for the purpose of breaking the hardest kind of land, the presence of the root-cutting colter serving to materially increase the efficiency of the device. This plow, as will be seen, is adapted for breaking and loosening the soil rather than for turning the sod, and it has been found to be extremely efficient for the purpose set forth.

Having thus described the invention, what is claimed is—

1. A plow-body having vertical side walls, a wheel journaled between said walls at their lower edges, a longitudinal aperture which is inclined at an angle to the lower edge of the body, a pointed bar seated in said aperture and extending over said wheel.

2. A breaking-plow including a solid body having draft-attaching and handle-carrying members integral therewith and provided with an inclined longitudinal aperture, a recess at its front edge adjacent to said aperture, and a recess at the heel end of the bottom, in combination with a pointed bar seated in the longitudinal aperture, a cutting member seated in the recess adjacent to the aperture, and a wheel supported for rotation in the recess at the heel end of the plow.

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

NELSON OZIAS FLINT.

Witnesses:

JAS. M. PEAKE,
CHARLES N. PEAKE.