S. PETERSON.

PLOW.

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1,041,666. Patented Oct. 15, 1912.

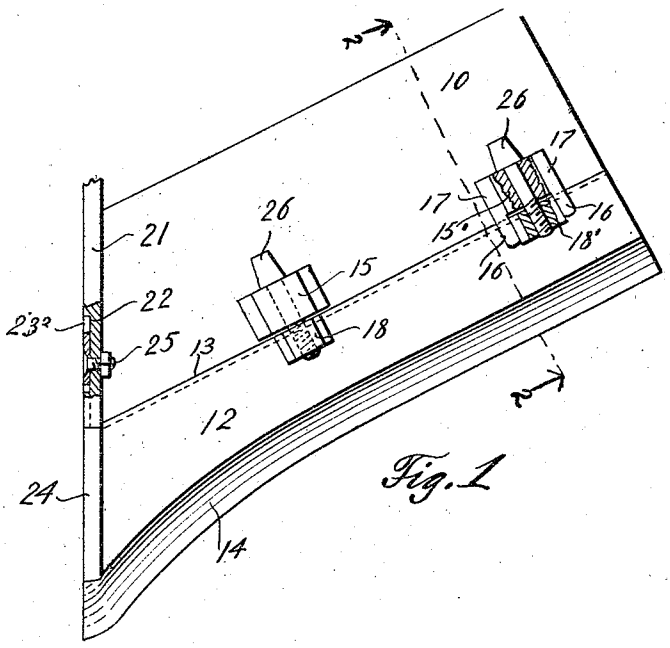


Fig. 1

Fig. 2

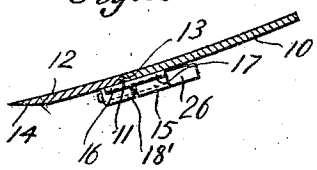
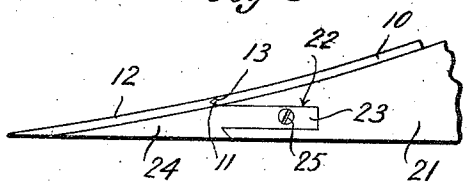


Fig. 3



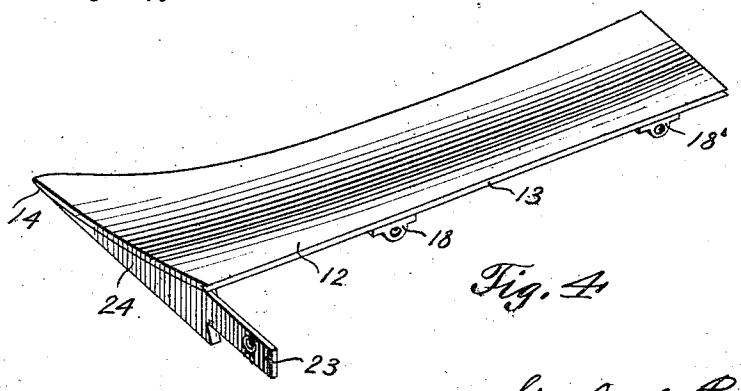


Fig. 4

Witnesses

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PLOW.

1,041,666. Specification of Letters Patent. Patented Oct. 15, 1912.

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To all whom it may concern.

Be it known that I, SIGFRED PETERSON, a citizen of the United States, residing at Lost Springs, in the county of Marion and State of Kansas, have invented certain new and useful Improvements in Plows, of which the following is a specification.

This invention relates to plows, and particularly to a form of construction therefor in which a share consisting of two detachable sections, is employed.

The object of the invention is to provide a form of plow share, consisting of two separate sections, one of which is provided with the usual cutting edge and an integral point, whereby the front section which carries the said cutting edge and point may be detached from the rear section so that it may be sharpened, or otherwise repaired, or in order to replace the front section with a new section.

According to the present invention, the two sections of the plow share are each provided with a landside portion, the said portions being adapted to be placed in alinement and locked together by an improved form of fastening means, and further means are provided for locking the two sections in such a manner as to prevent the sliding movement of one section with reference to the other.

For a full understanding of the present invention, reference is to be had to the following description and the accompanying drawings, in which—

Figure 1 is a bottom plan view of a plow share constructed of two detachable sections according to the present invention, certain of the parts being shown in section; Fig. 2 is a sectional view, taken on the line 2—2 of Fig. 1; Fig. 3 is a fragmentary elevation looking toward the landside of the plow; and Fig. 4 is a detail perspective view of the front section of the plow share.

Throughout the following detail description, and on the several figures of the drawings, similar parts are referred to by like reference characters.

Referring particularly to the drawings, the plow share constructed according to the present invention, consists of the two sections 10 and 12, the front section 12 being provided throughout its length with the usual cutting edge 14. The front edge 11 of the rear section of the plow share 10 is formed beveled, as will be seen particularly on reference to Figs. 2 and 3, and this beveled edge engages in a longitudinal groove 13 which is formed in the rear edge of the front section 12. It is contemplated that the rear section 10 of the share will have the usual moldboard secured thereto. The front section 12 carries an integral point, which is the front projection on the landside edge of the cutting edge.

On the under side of the rear section 10 of the share, and adjacent to the front edge thereof, a pair of sockets 15 and 15′ are provided, the socket 15′ being formed with outwardly projecting locking extensions 16, the rear portions 17 of which are preferably integrally, or otherwise formed, with the adjacent member 15′. On the under side of the front portion 12 of the share, at the rear edge of the latter, and in positions opposite to the positions occupied by the sockets 15 and 15′, are disposed two socket members 18 and 18′. The locking extensions 16 before referred to are made of such a length that they will engage opposite sides of the socket member 18′ when the two sections 10 and 12 are mounted in their proper relative positions so that the socket 18′ is opposite the socket 15′.

The plow share formed in two sections according to the present invention, is provided with the usual landside, the same consisting of the section 21, which may be formed integrally with the rear section 10 of the share, and the section 24, which may be formed integrally with the front section 12 of the share. The portion 21 of the landside is formed near its forward portion with a groove 22 in its outer side, this groove being adapted to receive a tongue 23 which corresponds in shape to the groove, and is formed integrally with the landside portion 24 of the front section 12 and projects rearwardly therefrom. A screw 25 passes through the landside portion 21 and through the tongue 23, so as to securely hold the tongue in the groove, this being apparent from Figs. 1 and 3.

Headed screws 26 pass through the sockets 15 and 15′ and are adapted to engage in threaded openings in the socket members 18 and 18′, disposed opposite to the sockets 15 and 15′, whereby the sections 10 and 12 of the share may be oppositely connected together. The engaging sockets 15 and 18, and 15′ and 18′, are designed to prevent any opposite sliding movement of the front sec-

tion 12 along the beveled edge 11 of the rear section 10 of the share. The extensions 16 co-act with the tongue 23 to carry the strain incidental to the operation of the plow in the earth, in so far as the connection between the two sections of the share is concerned. The tongue 23 and the locking extensions 16 relieve the screws 26 of strain, and prevent the bending, or distortion, of the screws 26, which bending would interfere with the ready detachment of the front section 12 from the rear section 10 for repairing purposes.

Having thus described the invention, what is claimed as new is:

1. In a plow, in combination, a share consisting of two detachable sections, the front edge portion of the rear section of the share being beveled said section being provided with a landside portion, the front section having a cutting edge and being formed with a landside portion adapted to be placed in alinement with the landside portion of the said rear section, said front section being provided on its side opposite to the cutting edge with a groove adapted to receive the beveled edge of said rear section, the landside portion of said front section of the share being provided with a tongue and the land side portion of the rear section of the share being provided with a groove in its side adapted to receive said tongue, means for fastening said tongue in the groove, a socket arranged on the under side of the rear section of the share adjacent the beveled edge thereof, a socket arranged on the under side of the front section of the share adjacent the rear grooved edge thereof, said two sockets being adapted to contact with each other, fastening means passing through both of said sockets, and extensions formed on said first named socket and extending beyond the front edge of the rear section of said share so as to engage the sides of said second socket and the lower side of the front section of the share.

2. In a plow, in combination, a share consisting of two detachable sections, the front edge portion of the rear section of the share being beveled said section being provided with a landside portion, the front section having a cutting edge and being formed with a landside portion adapted to be placed in alinement with the landside portion of the said rear section, said front section being provided on its side opposite to the cutting edge with a groove adapted to receive the beveled edge of said rear section, the landside portion of said front section of the share being provided with a tongue and the landside portion of said rear section of the share being provided with a groove in its side adapted to receive said tongue, a bolt passing through the wall of the land-side portion of said rear section and through said tongue adapted to fasten the latter in the groove, a pair of sockets arranged on the under side of said rear section of the share at the beveled edge thereof, a pair of sockets arranged on the under side of said front section of the share at the rear grooved edge thereof and adapted to connect respectively with said first named sockets, a screw passing through each pair of sockets and adapted to fasten the same together, and a pair of extensions formed on one of said sockets, one to each side thereof, said extensions being adapted to engage with the corresponding socket on the front section of said share and to also engage the under side of said front section.

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

SIGFRED PETERSON.

Witnesses:
RAY L. OBERHOLSER,
JOHN E. PETERSON.