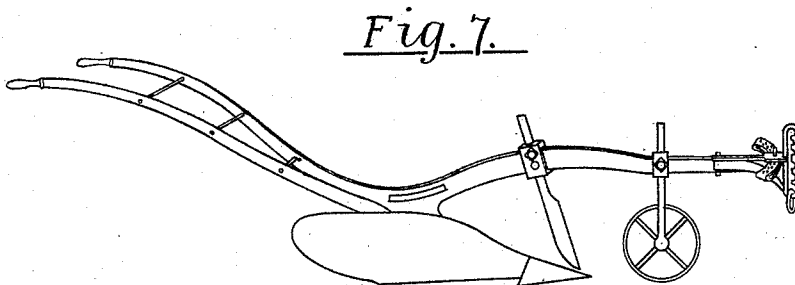
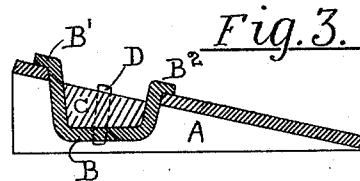
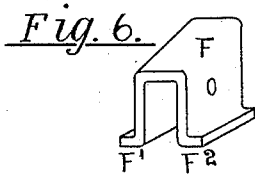
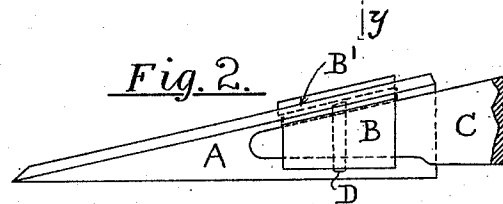
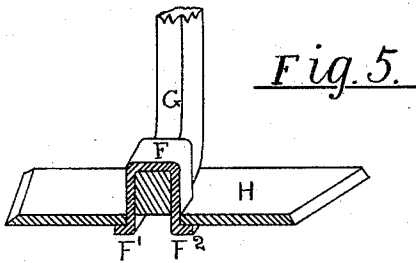
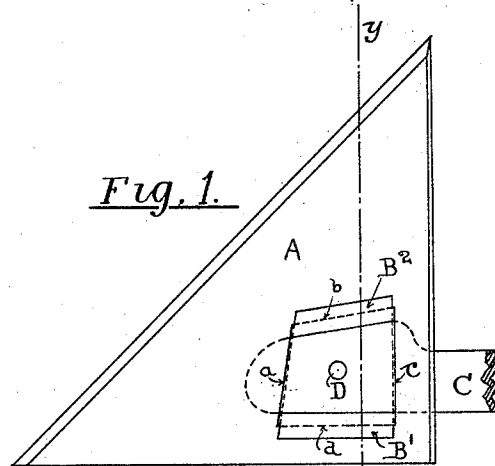
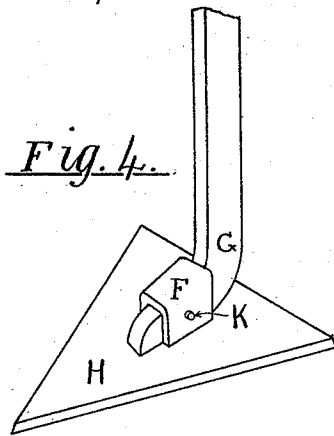


J. GILBERT.
SHARE ATTACHMENT.

No. 487,120.

Patented Nov. 29, 1892.



Witnesses:
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E. M. Clark

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(No Model.)

2 Sheets—Sheet 2.

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Fig. 8.

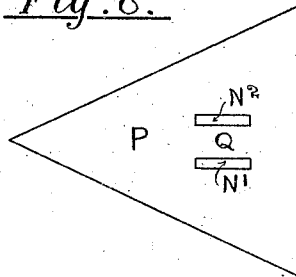


Fig. 9.

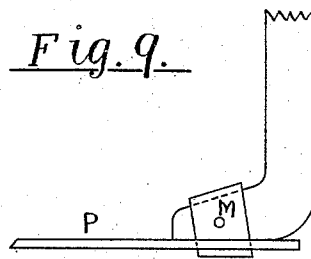
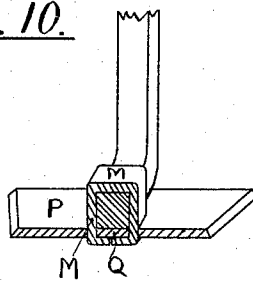


Fig. 10.



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UNITED STATES PATENT OFFICE.

JAMES GILBERT, OF CRYSTAL BROOK, ASSIGNOR OF ONE-HALF TO HENRY ALLSOP BEGG, OF SEMAPHORE, SOUTH AUSTRALIA.

SHARE ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 487,120, dated November 29, 1892.

Application filed May 27, 1892. Serial No. 434,568. (No model.) Patented in South Australia October 31, 1891, No. 2,076; in Victoria November 4, 1891, No. 9,207, and in New South Wales December 14, 1891, No. 3,468.

To all whom it may concern:

Be it known that I, JAMES GILBERT, machinist, a subject of the Queen of Great Britain, and a resident of the town of Crystal Brook, in the Province of South Australia, have invented a new and useful Improvement in Plows and Cultivating-Implements, (for which I have obtained Letters Patent in South Australia, No. 2,076, dated October 31, 1891; in Victoria, No. 9,207, dated November 4, 1891, and in New South Wales, No. 3,468, dated December 14, 1891,) of which the following is a specification.

This invention relates to the class of plows and implements in which movable shares are attached by slipping them onto a foot, the said shares, whether of steel or wrought or cast iron, being removable and changeable as and when required. These shares are usually made or cast with a shoe or socket into which the foot is inserted, and sometimes the shoe is so arranged as to allow the share to be turned over and reversed wing for point. The shares which are used with my invention do not contain any such shoe or socket cast or made in the share; but the shares I use are formed of a combination of a flat share or plate and a separate preferably-detachable loop, which together form the required shoe or socket.

My invention is to be used with plows in which the foot is projected in the line of progression. One of such plows is illustrated in the drawings, but there are many modifications.

In scarifiers and cultivators the leg is socketed in the center of the share in the manner shown in the detail drawings.

I do not claim to be the inventor of the reversibility of plow or scarifier shares, such having been done before. My invention is an improved method and appliances for enabling a plow or scarifier share or share-plate to be attached, detached, and reversed, and it applies to those kinds of shares which are flat on both the upper and lower sides or faces. The construction of the share-plate and the method of attachment differ from anything which, so far as I am aware, has ever been adopted before. The shapes of the feet

of the plow, scarifier, or other implement may be various, such as those now in use in Hornsby's, Howard's, and other plows and scarifiers, no alterations or adaptations of the foot being required in order to use my device. The socket-piece may be made of shape to fit any plow-foot or implement of this class. A share and socket made according to my invention are in two pieces. The share is flat and has an open space of suitable shape in the center or other position. Into this fits an arch-shaped clamp or loop of wrought metal with flanges at its ends, which forms the socket to receive the foot of the plow or implement.

In order that my invention may be clearly understood, I will now describe the same by reference to the accompanying drawings, in which—

Figure 1 is a plan and Fig. 2 a side elevation from the land side of a plow-foot fitted with one of my shares and socket-loop. Fig. 3 is a section on line *xy*, Fig. 1. Fig. 4 is an isometrical view of a scarifier-share fitted upon an ordinary scarifier-foot. Fig. 5 is a section showing the foot, share, and socket-loop. Fig. 6 is a view of the socket-loop detached. Fig. 7 is a general view of a plow of the kind to which my invention applies with the share detached to show the foot. Fig. 8 is a plan view of the share-plate only showing a modification. Fig. 9 is a side view of the share-plate with the socket, scarifier, and foot. Fig. 10 is a section through the share-plate, socket, and foot.

Referring to Figs. 1, 2, and 3, A is a share or share-plate constructed of steel or other metal.

B is a socket-loop of the shape shown—that is, having inverted-U shape in general, one leg being longer than the other to adapt the device to the inclination of the share-plate A. It is inserted through the aperture indicated by lines *a b c d* in Fig. 1, and when the flanges B' and B² of the socket-loop impinge against the share-plate a socket is formed of the proper size and shape to receive and fit the plow-foot C. This aperture in the share is so shaped that the socket-loop can be inserted from either side of the share. A pin-hole is drilled or formed, through which

the pin D is passed and assists in holding the parts together, although as in other plow-shares this pin is not essential and is sometimes dispensed with. The shape of the aperture in the share and of the socket-loop may be altered and varied to suit the several kinds of plow-feet. The shape illustrated in the drawings is that of a P-plow. The fastening of the share to the foot is effected by the clamp or loop B, which has flanges at its upper ends. This clamp or loop is passed partially through the aperture in the plate downward and is prevented from passing right through and secured in its proper position by the said flanges impinging upon the face of the share. The foot is then passed through the socket on the opposite side to the flanges and the whole forms a secure implement ready for plowing. To reverse the share, the pin D, if used, is knocked out, the socket-loop B removed, the share A turned over so that the wing becomes the point, the socket-piece B repassed through the opening, and the foot of the plow inserted as before.

In scarifier-shares, as illustrated in Figs. 4, 5, and 6, the shape of the clamp F is different, so as to form a socket suitable for the foot G of a scarifier. In this case, also, the clamp F is passed through the aperture upward, the flanges F' F² impinging from below against the bottom face of the scarifier-share H. The fixture may be additionally secured, if preferred, by the pin K passing through the holes provided for the purpose in the clamp F and the foot G. The reversal is performed by loosening the pin, if used, removing the clamp or loop F, turning over the share, and reinserting the clamp, as in the case of the plow-share.

In Figs. 8, 9, and 10 I have shown an alternative way of forming a socket for scarifier-shares. In this case the socket-loop M consists of a complete band, which passes through two slots N' N² in the share-plate P. The loop M after being put into the plate and bent round the bridge Q may be formed into a solid band by welding, riveting, or other

means, or it may simply be bent into the required shape with the ends butting together. The scarifier-foot is inserted in the loop and pressed in until the bottom of the loop is drawn up to the bridge Q, when the share-plate will be securely attached to the foot. In order to turn the share-plate over, the share and loop are knocked off the foot and turned upside down and the loop pushed through the slots N' N² until the part of the loop that was previously the top bears against the bridge-piece Q, and the scarifier-foot being inserted the share is again ready for work. A pin may be put through the socket and foot in the ordinary way, if desired.

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

1. In plows and like implements, the combination, with a share or share-plate, of a separate clamp the ends of which are bent to form flanges, said clamp forming an arch or loop at one side of the plate for receiving the foot of a plow and passing through an opening in said plate and engaging by its flanges with the opposite side of the plate, substantially as described.

2. The method of attaching a share or share-plate to the foot of a plow, scarifier, or other similar agricultural implement, consisting in inserting the foot of the plow or implement into a clamp or loop which is supported in its position by integral flanges, the clamp passing through the share-plate and pressing upon the opposite side of the same, thus forming a socket and holding the share-plate securely to the foot, substantially in the manner described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 26th day of March, 1892.

JAMES GILBERT.

Witnesses:

HENRY HERBERT BUTLER,
ROBERT APPLEBY.