To all whom it may concern:

Be it known that I, JONATHAN MEEKINS WOODLEY, of Clío, in the county of Marlborough and State of South Carolina, have invented certain new and useful improvements in Plows, of which the following is a full, clear, and exact description.

This invention is applicable to sweep, single or double shovel, bull-tongue, and other plows, and can be readily applied to different sweep or shovel stocks, including those now in use, whether made with wood or iron standards or shelves.

The invention consists in a certain wedge-shaped adjustable and reversible block for use in connection with an adjustable breast part, which carries the sweep or shovel, said wedge or block being arranged between the standard of the plow and the portion of the breast which is adjustable up or down, the whole, which forms a plow gage, being adapted to suit plows of different lengths, and serving to regulate the angle or pitch and depth of entry of the sweep or shovel into the ground.

The invention also consists in a detachable and reversible shoe, substantially as hereinafter shown and described.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 represents a side view of a plow in part with my invention applied, and showing an attached shovel in section. Fig. 2 is a longitudinal vertical section through the breast and foot piece, wedge, and the detachable and reversible shoe. Fig. 3 is an under view of the breast and foot piece detached. Fig. 4 is a view in perspective of one end of the detachable and reversible shoe, and Fig. 5 a perspective view of the wedge or wedge-shaped block detached.

A indicates the standard or stock portion of a sweep or shovel piece, B its beam, and Cone of its handles.

D D' is the breast and foot piece, made separately attachable to the plow stock, and the breast part D, of which, that carries the shovel E, is suitably curved or shaped to fit the shovel or sweep; also is made adjustable up or down on the stock to adapt it to any length of plow.

Said adjustment is provided for by constructing said curved breast part D with a longitudinal slot, b, through which the bolt c, that secures the shovel E to its place on the stock, passes, said bolt also passing through a wedge or wedge-shaped metal block, G, also having a longitudinal slot, d, in it, and through any one of a series of holes, e, arranged one above the other in the lower portion of the standard A. Flanges f may be formed on the sides of the breast and foot piece D, to receive the lower end of the standard and the wedge G down within it. By adjustment of the wedge G up or down, which wedge is arranged between the breast part D and standard A, and is suitably curved on its face to fit said breast part, and by reversing the wedge, which tapers in direction of its thickness—that is, either placing its thick or thin end uppermost—the sweep or shovel E can be regulated to run any desired depth, and the gage be adjusted to any desired angle. In making these adjustments, in which the wedge G serves to adapt the gage to different makes of shovel plow stocks, the bolt c is first slackened and afterward tightened up. The foot part D' of the breast and foot piece has a longitudinal strip, g, on its underside, formed with a hook-shaped extremity, h, at its one or forward end, over which the detachable shoe H of the plow is slipped, and with the hook end of which it is made to engage, and is ultimately secured by a bolt, i, arranged to pass through the other end of the shoe and foot part D'. The upper face of the shoe has a recess, k, in it to fit over and receive within it the strip g, which recessed portion has its opposite marginal ends each formed with a hooking-lip, l, to provide for the shoe being reversed end for end and still engage or lock with the hook end h of the foot-piece, the shoe being provided with a hole for the bolt i at or near both of its ends. This differs from a mere adjustable or mere detachable shoe, inasmuch as it provides, by reversing it, for wear at both ends before replacing it by another shoe, which is of great importance in view of the fact that the shoe is the part most exposed to wear.

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

The combination, with the standard and securing-bolt, of the foot-piece having a longitudinally-slotted curved breast portion and the longitudinal strip upon its horizontal bottom portion, said strip having a hook at one end, the reversible recessed shoe, and the reversible slotted wedge, substantially as and for the purpose set forth.

Witnesses:  
JONATHAN MEIKINS WOODLEY,  
MELTON McLAWREN,  
B. A. ROGERS.