A. MORRISON

STEEL BEAM SHOVEL FLOW

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Fig. 1.

Fig. 2.

A. Morrison, Inventor

My Code.

Attorney
To all whom it may concern:

Be it known that I, ARCHIEBALD MORRISON, a citizen of the United States, residing at Covington, in the county of Tipton and 5 State of Tennessee, have invented a new and useful Steel-Beam Shovel Plow, of which the following is a specification.

The device forming the subject matter of this application is a plow, and one object of the invention is to improve the construction of the plow beam, another object of the invention being to improve the construction of the combined gauge and 10 rudder.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the invention appertains.

With the above and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that, within the scope of what is claimed, changes in the precise embodiment of the invention shown can be made without departing from the spirit of the invention.

In the accompanying drawings:—

Figure 1 shows in elevation, a plow constructed in accordance with the invention; Figure 2 is a bottom plan.

The plow forming the subject matter of this application includes a one-piece metal beam 1 comprising a body 2 and a depending standard 3, the standard and the rear portion of the body 2 being divided at 4, longitudinally, to form arms 6 which are connected at their forward ends by an integral head 5, merging into a flange 7 which, as shown in Figure 1, extends upwardly above the head 5 and downwardly below the head, the side surfaces of the head and of the flange converging as at 8, to cause the flange 7 to be thinner than the head 5, measured horizontally. The flange 7 is provided with vertically spaced openings 9 adapted to receive a securing element 10 carrying a clevis 11. The result is a plow beam of great strength at its forward end, and well adapted at that point to receive the draft means, represented by the clevis 11. The handles 12 of the plow may be attached by a securing member 14 to the depending standard 3, a rod 15 extending between the handles, braces 16 being connected at 17 to the handles 12 and to the body 2 of the beam, a brace 18 extending across the gooseneck 19 of the beam, the brace 18 being secured at its ends between the arms 6.

A furrow opener 20, or other soil-engaging element, extends between the arms 6 and is located adjustably in the body 2 of the beam, the member 20 being held in place by a clamping yoke 21, or by an equivalent device. A plow point 22 is held on the lower end of the standard 3 by a securing device 23, such as a bolt passing between the constituent arms of the standard 3. The device comprises a combined rudder and gauge, fashioned from a single piece of metal and including a shank 24 which is bent upon itself as at 25, to form a double-walled gauge 26, the constituent members of which are in contact, the lower element of the gauge 26 being twisted upon itself as at 27 to form a depending rearwardly inclined rudder 28 disposed substantially at right angles to the gauge 26 and in a vertical position. The shank 24 of the gauge and rudder is held adjustably on the standard 3 by the bolt 29 and the gauge and rudder may be adjusted to suit, accordingly. The part 26 limits the penetration of the plow point 22 into the soil, and the rudder 28 aids the plow in holding its course.

What is claimed is:—

A one-piece metal plow beam including a body and a depending standard, the standard and the rear portion of the body being divided longitudinally to form arms which are connected at their forward ends by an integral head merging into a flange which extends upwardly above the head and downwardly below the head, the side surfaces of the head and of the flange converging, to cause the flange to be thinner than the head, measured horizontally, thereby reducing the weight at the extreme forward end of the plow beam.

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

ARCHIEBALD MORRISON.

Witnesses:
O. W. Souder,
L. Chamberlain.