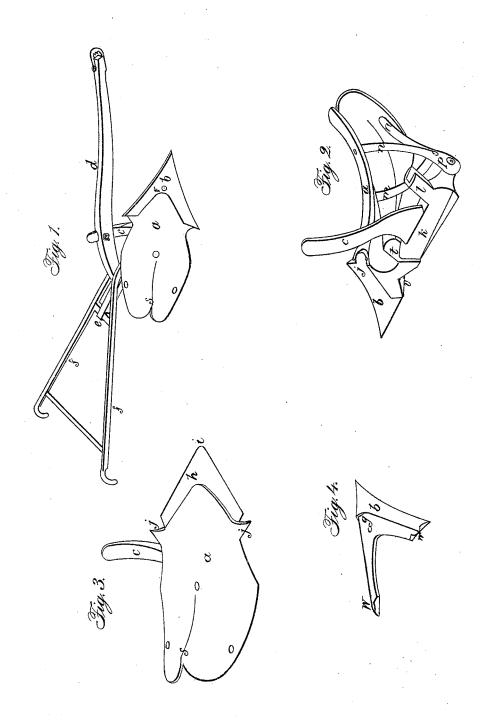
## SMITH & GRISWOLD.

Side-Hill Plow.

No. 5,677.

Patented July 25, 1848.



## United States Patent Office.

E. J. SMITH AND HORACE GRISWOLD, OF DELHI, NEW YORK.

## IMPROVEMENT IN HILLSIDE-PLOWS.

Specification forming part of Letters Patent No. 5,677, dated July 25, 1848.

To all whom it may concern:

Be it known that we, EDWIN J. SMITH and HORACE GRISWOLD, of Delhi, in the county of Delaware and State of New York, have invented a new and Improved Hillside-Plow; and we do hereby declare the following to be a full, clear, and exact description of the construction and operation thereof, reference being had to the accompanying drawings, making a part of this specification, in which-

Figure 1 is a perspective view of a plow complete; Fig. 2, a perspective view of the metallic portion of the same detached from the woodwork, and Figs. 3 and 4 detached portions of

the same.

Similar letters refer to corresponding parts

in all the figures.

The improvements in our hillside-plow that distinguish it from all others are, first, the form of the mold board. This is of such a shape that it will not only serve for hillside-plowing, but will turn over a furrow on flat land, and make a superior plow for all kinds of plowing.

Our second improvement consists in the peculiar manner of confining the share to the mold-board by means of projecting ears, point

and socket, and a single bolt.

a is the mold-board. The after portion of the mold-board is divided into two faces by the sharp angle or projecting central edge, s, which projection serves to turn over the furrow when our plow is used on flat land.

b is the share of our improved plow, serving as a point, share, and colter. The share is se-

cured to the mold-board as follows:

h is a recess on the front end of the moldboard for the reception of the share, terminating in the point i.

jj are ears projecting from the sides of the mold-board at the inner terminations of the

sides of the recess h.

g is a socket on the under side of the forward part of the share. www are ears projecting from the under side of the extremities of the branches of the share. The point *i* on the front end of the mold-board fits into the socket *g* on the under side of the share, and the ears w w on the share closely fit under the ears jj on the mold-board. The single bolt v then, in conjunction with the point i, socket g, and ears

jj and ww, holds the share securely in its place, as represented.

t is an offset descending from the under side of the front portion of the mold-board. An aperture in the rear side of the offset t receives a pivot on the front end of the landside k of the plow. The pivot on the rear end of the landside has its bearing in the arm p, which is connected to the under side of the mold-board by the branch levers m and n n.

l is a socket, east on the landside k, which receives the bottom of the wooden standard e. The sides of the socket extend to such a height as to prevent the friction of the earth from wearing away the standard.

c is a metallic standard, rising from and cast

in one piece with the landside k.

d is the beam of the plow. The beam d is secured to the landside  $ilde{k}$  by means of a tenon on its rear end secured in a mortise in the standard e, and by the metallic standard c, passing through a mortise in the beam, and being secured by a bolt. The handles ff are secured to the beam as represented in Fig. 1, or in any convenient manner.

The mold-board is shifted to opposite sides of the landside by elevating the beam and pass-

ing the mold-board under the same.

Having thus fully described the construction and operation of our improved hillside-plow, what we claim therein as new, and desire to secure by Letters Patent, is-

1. The central angle or projection, s, on the mold-board, dividing the after portion of the same into two faces for the purpose of turning over a furrow, and thereby adapting our hillside-plow to flat-land plowing, substantially as herein set forth.

2. The manner of confining the share b to the mold-board by means of the recess h, the point i, and the ears jj on the mold-board, the socket g and the ears w w on the share, combined with each other and with the bolt v, substantially in the manner herein set forth.

> E. J. SMITH. HORACE GRISWOLD.

Witnesses:

JAMES H. WRIGHT, JOHN C. STODDART.