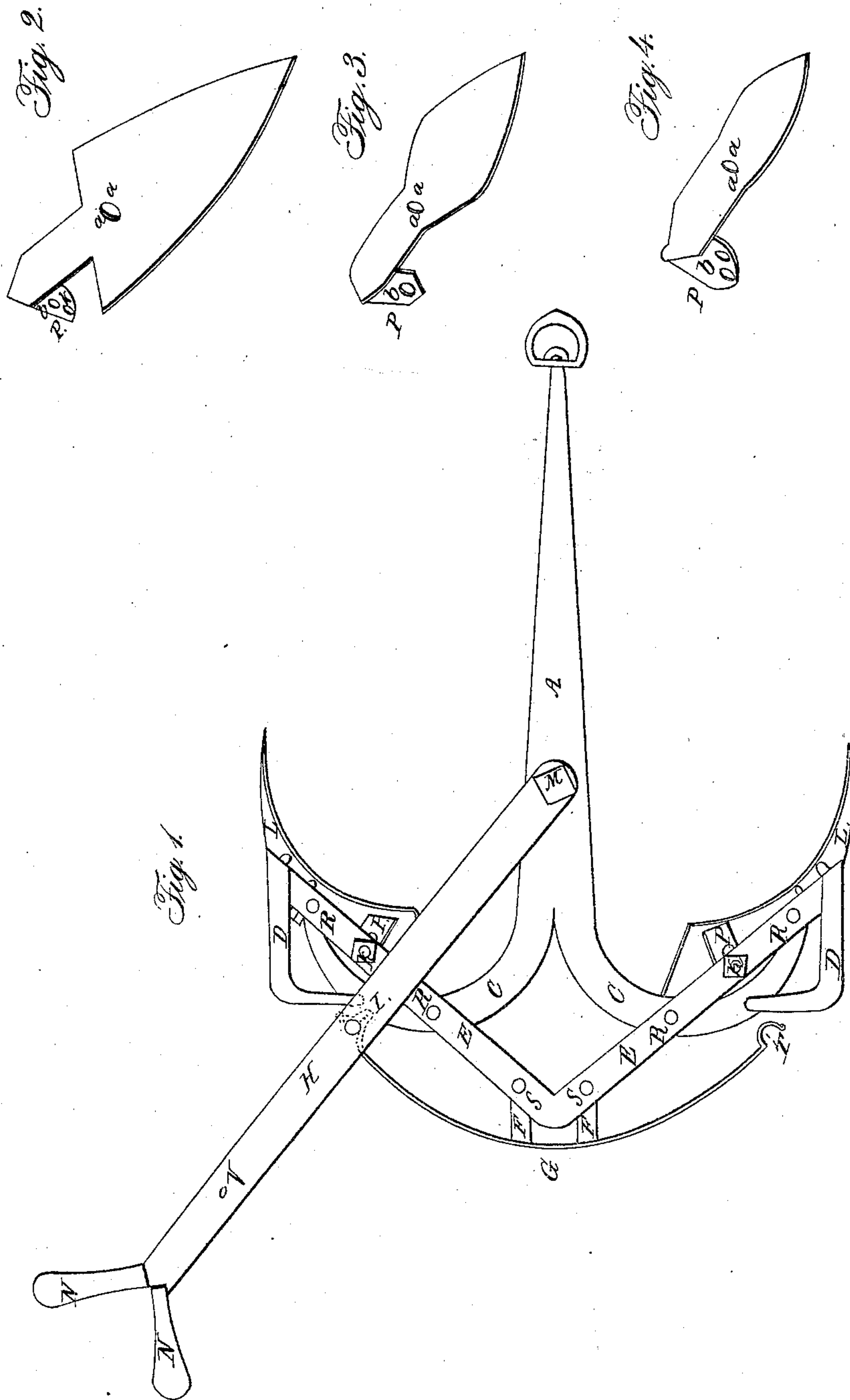


A. I. HARDIN.

Side-Hill Plow.

No. 18,336.

Patented Oct. 6, 1857.



UNITED STATES PATENT OFFICE.

A. I. HARDIN, OF SHELBY, NORTH CAROLINA.

IMPROVEMENT IN HILLSIDE-PLOWS.

Specification forming part of Letters Patent No. **18,336**, dated October 6, 1857.

To all whom it may concern:

Be it known that I, ANCIL I. HARDIN, of Shelby, in the county of Cleveland and State of North Carolina, have invented a new and Improved Hillside-Plow; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Figure 1 represents turning-plows fastened to the stock, which may be set so as to run different depths by adjusting-holes in swords P and P, which are riveted to shares L L and fastened to E E and E E by bolt and screw K. Fig. 2 represents a straight shovel-plow to be fastened on the stock in like manner as L L, *a a* being holes in the shares through which a bolt passes to fasten to E E between C C and D D. Figs. 3 and 4 are different shaped plowshares, which may be attached to the stock in the same way as Figs. 1 and 2, *a a* in each of them being holes for bolt and screw to fasten to the stock with, and *b b* in each of the shares being the adjusting-holes in sword P, through which a bolt, K, passes, fastening the sword portion of the plowshare to E E and E E.

The nature of my invention relates to the peculiar arrangement of spring G, handles H, and beam A, hereinafter described.

A is a wrought-iron beam, three-fourths of an inch thick, two and a half inches wide, with a swivel on the front end, (marked B.) Said B revolves around the beam A at will. Beam A separates two feet from B, each portion (marked C and C) curving nearly half around on these two pieces. C and C are two bars one and one-fourth inch wide, one-half inch thick, thirty inches long, (marked E E and E E,) set in angular form, united together at each end by a block of iron three-fourths of an inch thick. At the same time is a bar united to one side of each end of E E and E E, (marked D and D,) resting against the curve of C and C. The two bars C and C pass between E E and E E, fastened by two rivets or bolts, R R

and R R. At the angle or center of E E and E E is a piece of iron set in steeple form, (marked F and F,) fastened to E E and E E by two rivets, S S. Attached to each end of F and F is a spring two and a half inches wide, (marked G,) passing near to the curve of C and C, with a curve or catch near each end, (marked T and T.) Each end of spring G reaches near to the conjunction of C and D and C and D.

The handles are two bars of iron one inch wide and one-half inch thick, three feet long, (marked H H,) fastened by bolt M through beam A, near the conjunction of C and C with A. The handles H and H are held apart at a proper distance by two iron rods. The front rod (marked I) is set backward in the middle, so as to form a shoulder on each side of spring G, and thus prevent the handles from passing to the right or left side. When rod I is raised to the upper end of spring G, so as to catch in curve T, the plow is ready for use, and by pressing spring forward with the hand or foot, so as to allow rod I to pass from curve T toward the other end of spring G, and at the same time turning over the whole plow and raising up the handles, so as to let rod I catch in the curve T of the upper end of spring G, the plow is again ready for use. Between the end of the handles H and H and rod I is another rod, V, which serves to prevent the handles from being bent together. The back end of handles H H are forked, so as to form a set of handles to hold with either side of the plow being up. These double handles are marked N N and N N.

What I claim as my invention, and desire to secure by Letters Patent, is—

The arrangement of spring G with relation to handles H and beam A, in the manner and for the purpose described.

A. I. HARDIN.

Witnesses:

D. FROMBERGER,
R. FROMBERGER.