(No Model.)

W. N. PHIPPS.

CUTTER FOR STIRRING PLOWS AND LISTERS.

No. 343,196. Patented June 8, 1886.

FIG 1

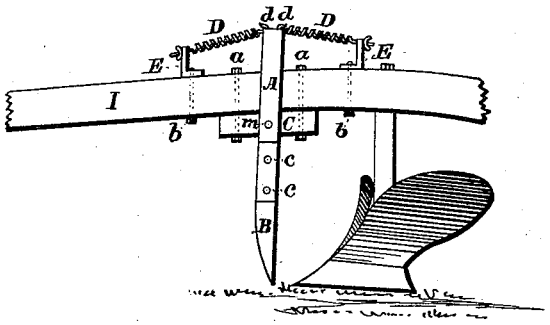


FIG 3

FIG 4

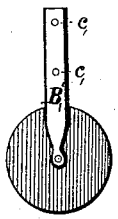


FIG 2

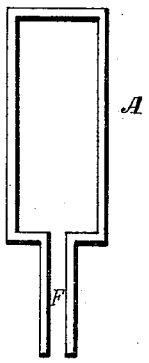
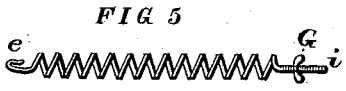


FIG 5



Witnesses:
Wm Aitken
Isaac M. Phipps

William N. Phipps
Inventor.

UNITED STATES PATENT OFFICE.

WILLIAM N. PHIPPS, OF GLENWOOD, IOWA.

CUTTER FOR STIRRING-PLOWS AND LISTERS.

SPECIFICATION forming part of Letters Patent No. 343,196, dated June 8, 1886.

Application filed March 25, 1886. Serial No. 196,578. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM N. PHIPPS, of Glenwood, in the county of Mills and State of Iowa, have invented a new and Improved Cutter for Stirring-Plows and Listers, of which the following is a specification.

The object of my invention is to provide a cheap and simple cutter for the purpose of cutting trash and to assist in opening a furrow. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a view of the several parts attached to the beam of an ordinary plow. Fig. 2 is a front view of the loop A. Fig. 3 is a view of the curved knife or cutter B. Fig. 4 shows the changeable rolling cutter B′, and Fig. 5 shows the adjustable tension-spring

Similar letters refer to the similar parts throughout the several views.

To accomplish this a piece of iron, A, is bent so as to form a loop, which slips down astride of the beam I. The ends of the loop are bent below the beam I, so as to come together to hold the shank of the curved knife B. Said stirrup has two (2) small holes, *c c*, for two (2) bolts to pass through to hold the knife B in place. Said knife has the point curved back toward the point of the plow, so as to give the knife a drawing cut. Said stirrup or loop is placed on beam I in front of the point of the plow. A block, C, is bolted to the under side of the beam I. The bolt *m* passes through the stirrup and block to hold the stirrup in place. The stirrup and cutter, having but one bolt, have room to play, which gives to the cutter a rocking motion. Said loop has two small holes on the top, for attaching the front and rear springs. The latter is a heavy coiled spring, with a hook, *e*, on one end, and a threaded bolt, *i*, on the other. Said hook on the end of the spring is passed through a hole on the back of the stirrup, and the threaded end of the bolt on the rear end of the spring passes through an eye or bracket bolted to the beam. Said bolt has a burr, G, for gaging the tension of the spring. Tightening the burr draws the top of the cutter-loop back and presses the knife into the ground; but should the cutter strike any obstruction the spring will give and let the cutter pass over. The other spring in front of loop A is simply to hold the point of the cutter up while turning at the end.

Removing the bolts that hold the knife, and taking the knife out and inserting the shank of a rolling cutter, B′, in its place, converts it into a rolling cutter for sod or heavy trash.

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

In combination with a plow-beam and plow, the pivoted cutter-loop A, bolt or rod *m*, springs D, and brackets E, adapted to carry the knife B or the rolling cutter B′, substantially as shown and described.

WILLIAM N. PHIPPS.

Witnesses:
WM. AITON,
ISAAC M. PHIPPS.