

(No Model.)

J. G. HALL.
TRIP DEVICE FOR CULTIVATORS.

No. 487,218.

Patented Nov. 29, 1892.

Fig. 1.

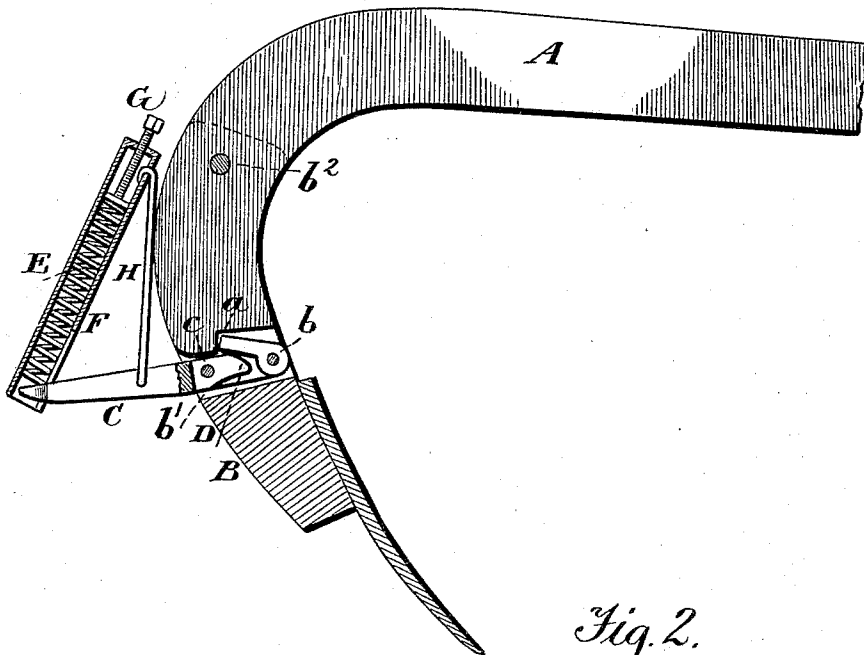
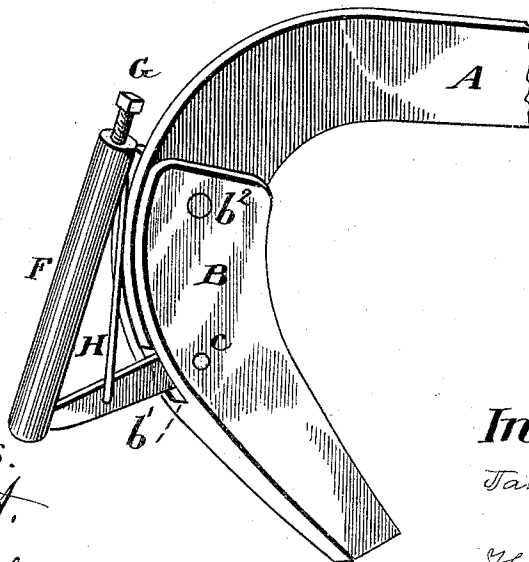


Fig. 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

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TRIP DEVICE FOR CULTIVATORS.

SPECIFICATION forming part of Letters Patent No. 487,218, dated November 29, 1892.

Application filed May 10, 1892. Serial No. 432,477. (No model.)

To all whom it may concern:

Be it known that I, JAMES GRANT HALL, a citizen of the United States, residing at Kentland, in the county of Newton and State of Indiana, have invented certain new and useful Improvements in Trip Devices for Cultivators; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The invention relates to that class of cultivators on which "break-pins" are used; and it consists in the device hereinafter described.

Figure 1 of the drawings is a side elevation, partly in section, and Fig. 2 a detail view, of my invention.

In the drawings, A represents a cultivator-standard, with the notch *a* in the front part of its lower end, which is passed between the bifurcations *b' b'* of the plow-holder B, the latter being pivoted thereto at *b*².

C is a lever fulcrumed at *c* between the prongs *b' b'* and provided with the pivoted detent *b*, which works in the standard-notch *a* to keep the standard and plow-holder in alignment. The detent *b* is held up, so as to catch in the notch *a*, by a subjacent spring D, while the lever C bears at the other end against the bottom of a spiral spring E, arranged in a tube F and bearing upon the lower end of a screw G, which is employed

to regulate its tension. The tube is open-slotted at the lower end to admit one end of the lever C and open-slotted at the upper end to receive the brace H, which connects the middle of the lever C with the upper end of the tube F, so that when the plow-holder and standard are in alignment the said brace will rest along nearly its whole length upon the rear of the standard. When the plow strikes a rock, stump, root, or other serious obstruction, the springs will yield and the detent *b* leave the notch *a*, thus allowing the plow-holder B to turn backward and pass over it, when it may be quickly reinstated.

Having thus described all that is necessary to a full understanding of my invention, what I claim as new, and desire to protect by Letters Patent, is—

The combination, with the notched standard A and bifurcated plow-holder B, pivoted thereto, of the lever C, fulcrumed to the holder B and carrying the pivoted spring-supported detent *b*, the tube F, the spiral spring E, supported in said tube near the top, and the brace H, connecting the lever and tube, as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

JAMES GRANT HALL.

Witnesses:

WM. PERRY,

CHAS. W. ARMSTRONG.