

A. H. ALLISON.
Wheel Cultivator.

No. 69,743.

Patented Oct. 15, 1867.

Fig. 1

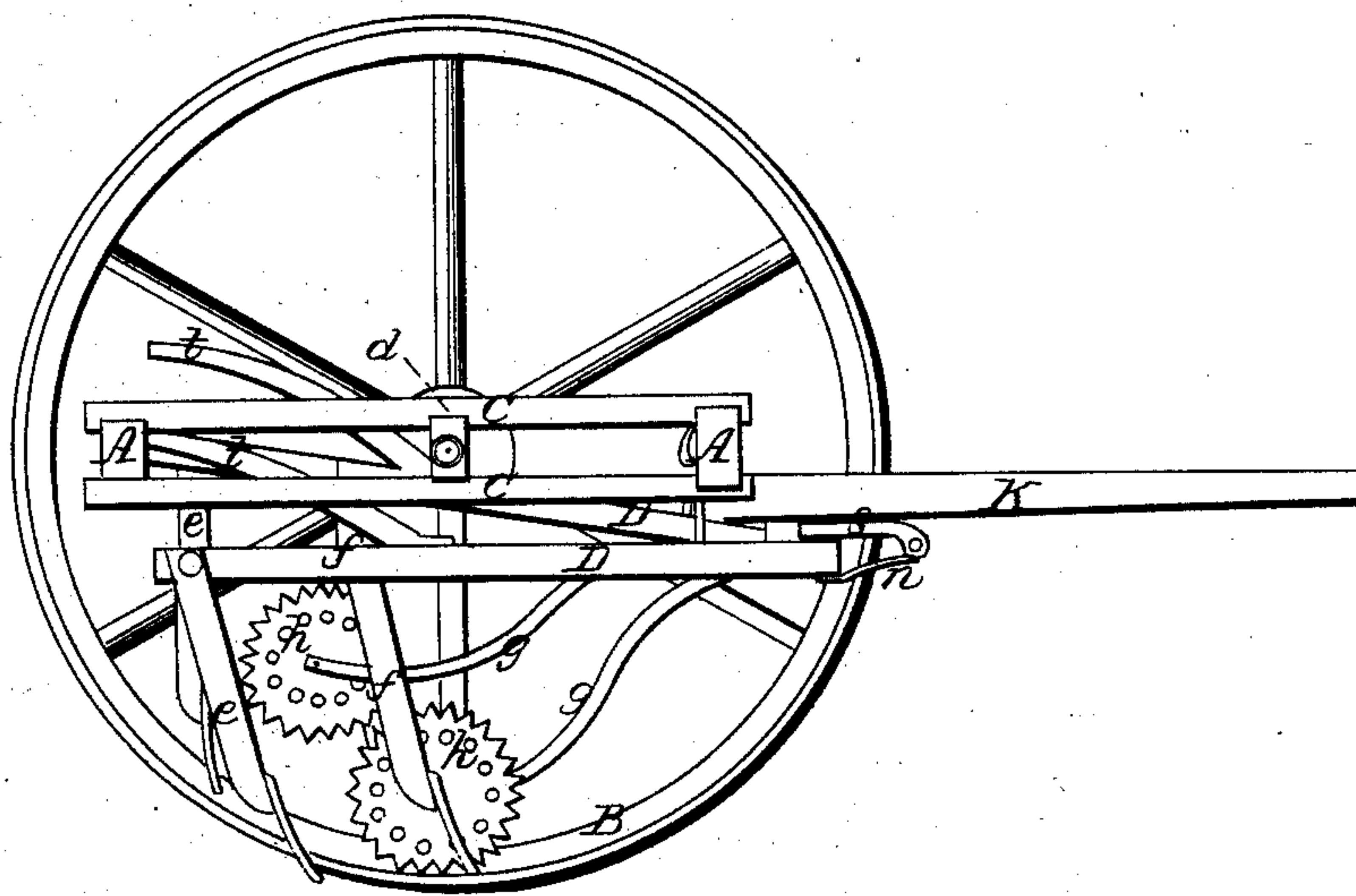


Fig. 3

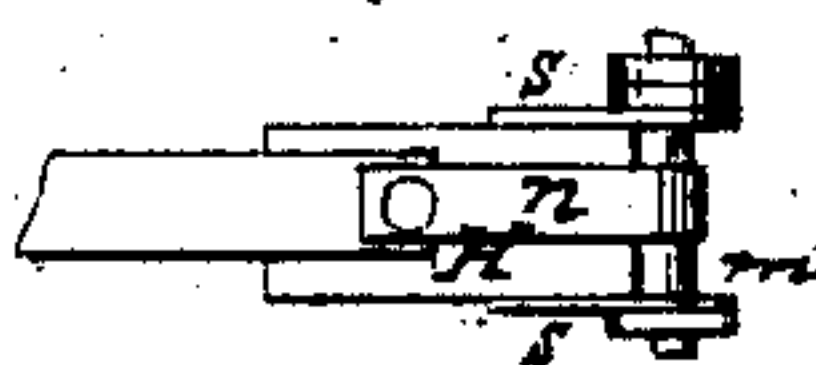
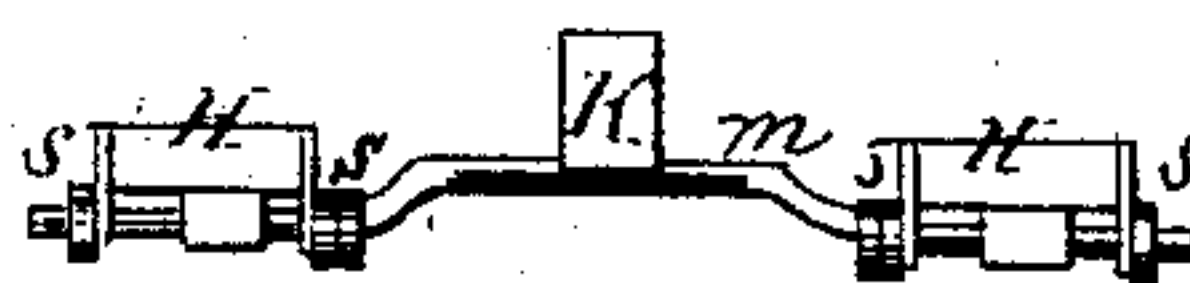


Fig. 2



Witnesses;
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United States Patent Office.

A. H. ALLISON, OF CHARLOTTESVILLE, INDIANA.

Letters Patent No. 69,743, dated October 15, 1867.

IMPROVEMENT IN CULTIVATORS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, A. H. ALLISON, of Charlottesville, Indiana, have invented certain new and useful improvements in Cultivators; and I hereby declare that the following is a true, full, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon. In the annexed drawings, which make a part of this specification—

Figure 1 represents a side view of my cultivator, with one wheel removed.

Figure 2, a front view of the rod supporting plough-beam.

Figure 3 is an inverted plan view of the block and rod to which the plough-beams are attached.

The framework of my machine consists of the two pieces of timber A A placed at right angles to the wheels B. These timbers are at a suitable distance apart, and bound together at their opposite ends by the ties C C. Between the ties C C a space is left to receive the adjustable axles *d*. By this arrangement the wheels can be moved backwards or forwards, and thus adapt the frame to the weight of the driver, who is seated on said frame. The axles, it will be seen, are made to extend a little inside of the ties C C, and have lateral grooves cut in their upper and lower sides to receive the ties C C C C, and thus may be slid the whole distance between the timbers A A. D D designate the plough-beams, which are suspended to the front timber A by a hook attached to the beam, which passes over a similar hook attached to the timbers A. To the rear end of each beam D is fastened a standard, *e*, to which the shovels are attached. In front of standards *e* there are two other standards, *f*, fastened to the opposite side of beams D. On the inner side of beams D are adjusted the curved rods *g g*, which are at their upper end secured by a staple to the said beams. The lower end of each rod *g* is furnished with a serrated metallic disk, *h*, which revolves on a pivot passing through the said rod. The object of this disk is to break up the clods as they are brought to the surface by the action of the shovels. H represents two oblong blocks attached to the rod *m*, near its opposite ends, by the metallic straps *s*. The said straps are hinged so as to have a vertical motion. *n* represents an additional iron strap, one end of which is attached to the plough-beams D, and the other end embracing the rod *m*. It will be observed that the beams D being attached to the blocks H by a single bolt, will have a lateral play, and that they will also have a vertical play, by reason of their being attached to straps *n*. *t t* represent the handles for guiding the plough-beams. *k* designates the tongue, to the bottom of which the rod *m* is fastened.

In operating my cultivator the beams D will be disengaged from the hooks by which they are suspended, and the shovels suffered to enter the earth, and the beams D elevated or moved laterally, at the pleasure of the operator.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The axles *d*, in combination with ties C C, when constructed and arranged as and for the purpose herein set forth.

2. The beams D D, the blocks H H, the rod *m*, the rods *g g*, and the disks *h*, the whole constructed and operating substantially as herein specified.

In testimony that I claim the foregoing as my own, I hereby affix my signature in the presence of two witnesses.

A. H. ALLISON.

Witnesses:

JOHN WEEKS,

ROBERT B. WHITE.