

(No Model.)

G. WETTLAUFER.
PEA HARVESTER.

No. 593,261.

Patented Nov. 9, 1897.

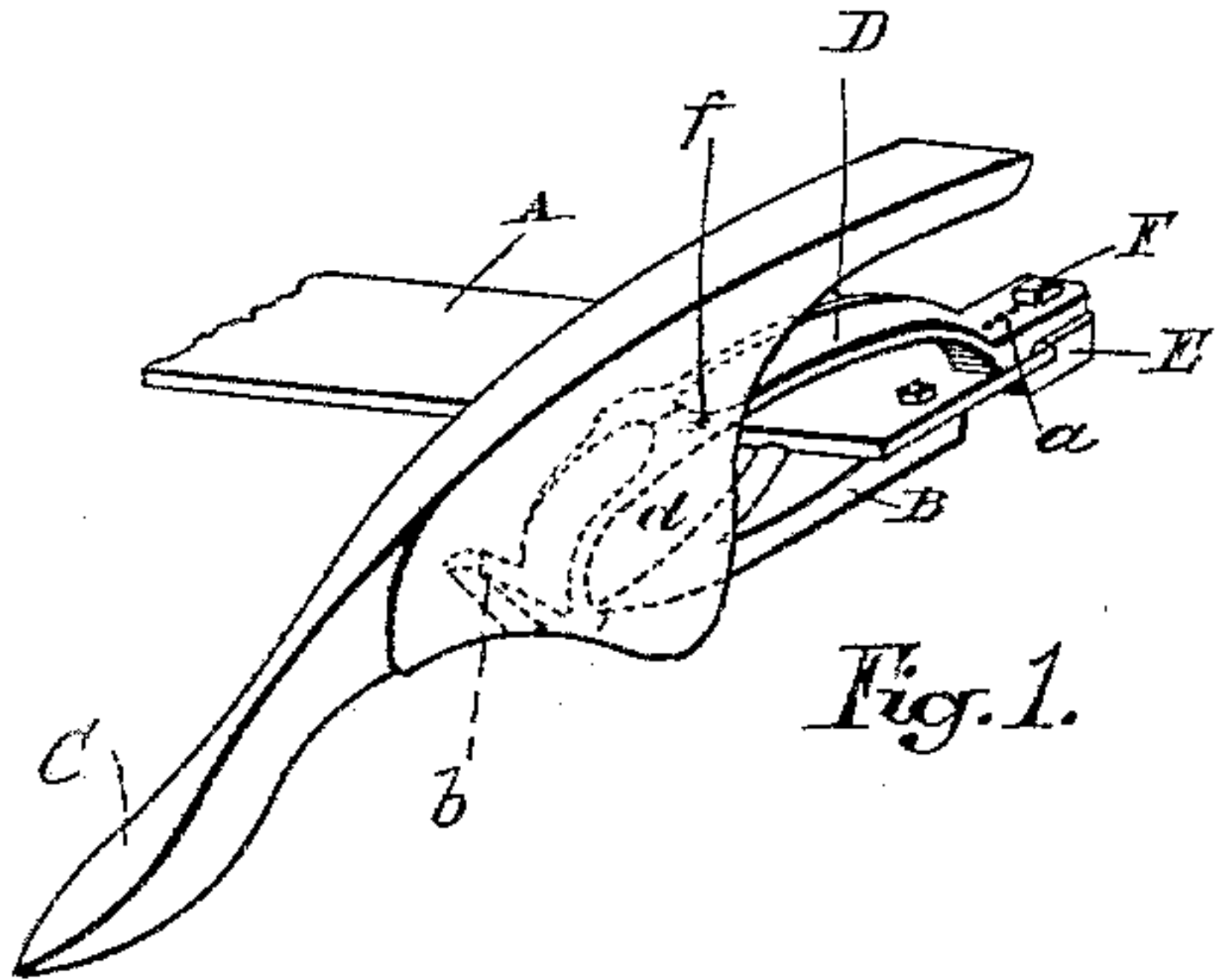


Fig. 1.

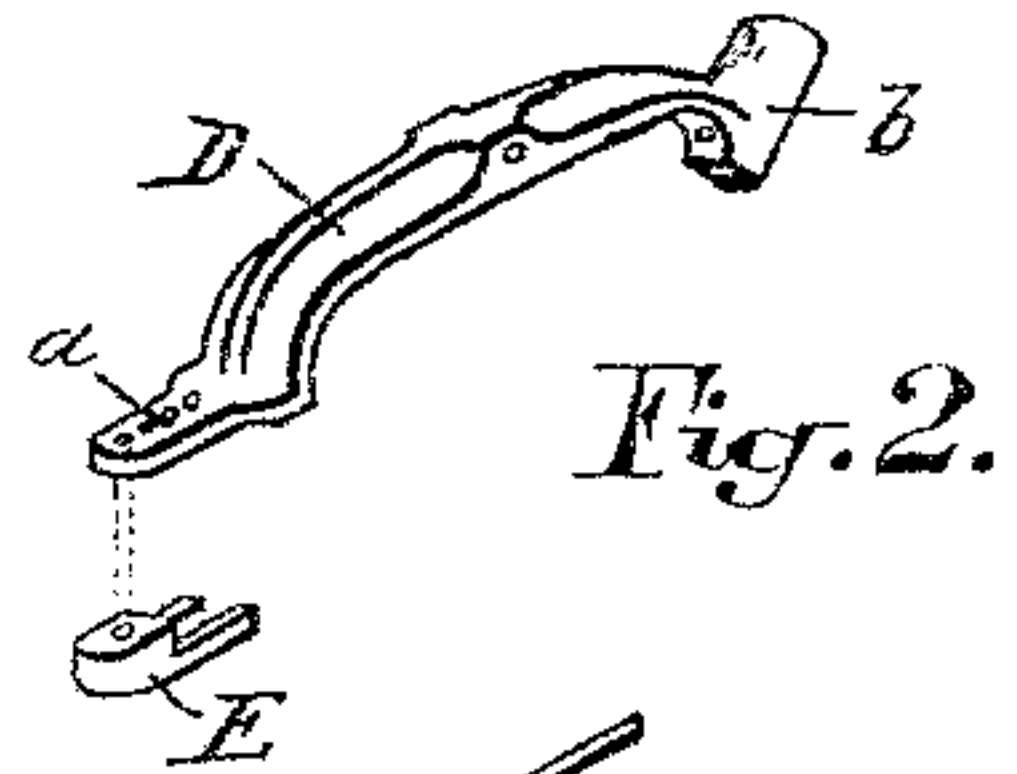


Fig. 2.

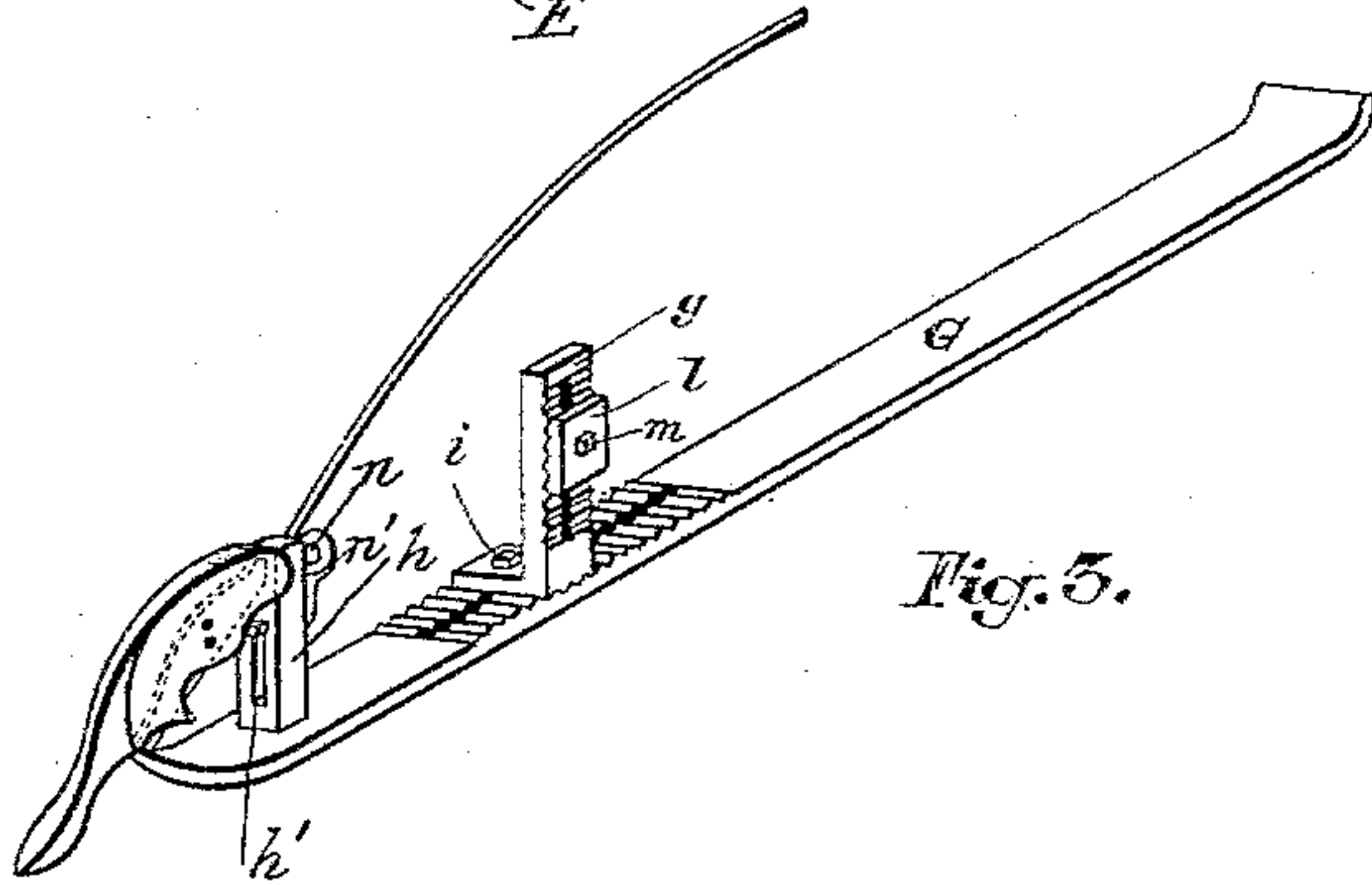


Fig. 3.

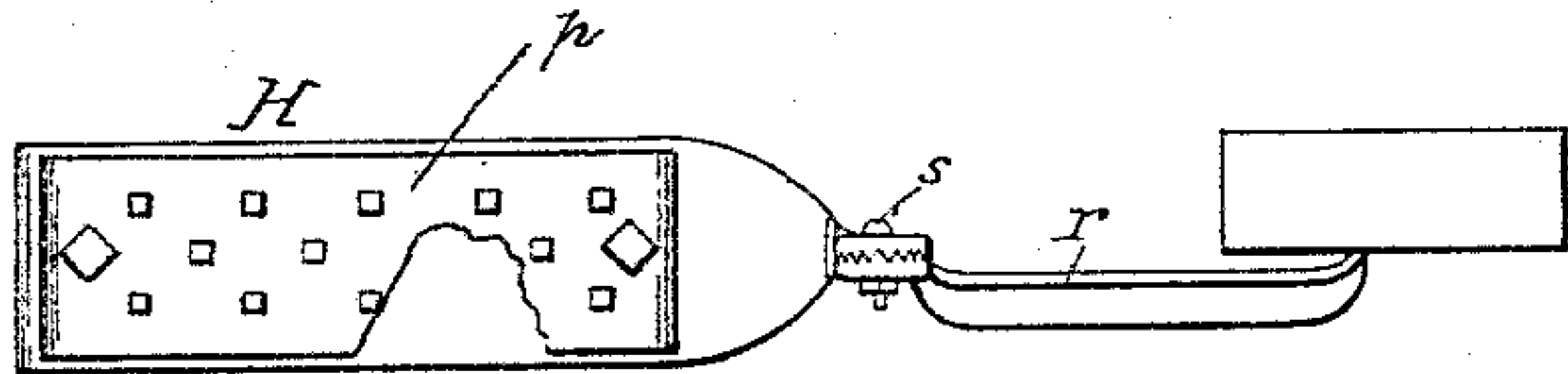


Fig. 4.

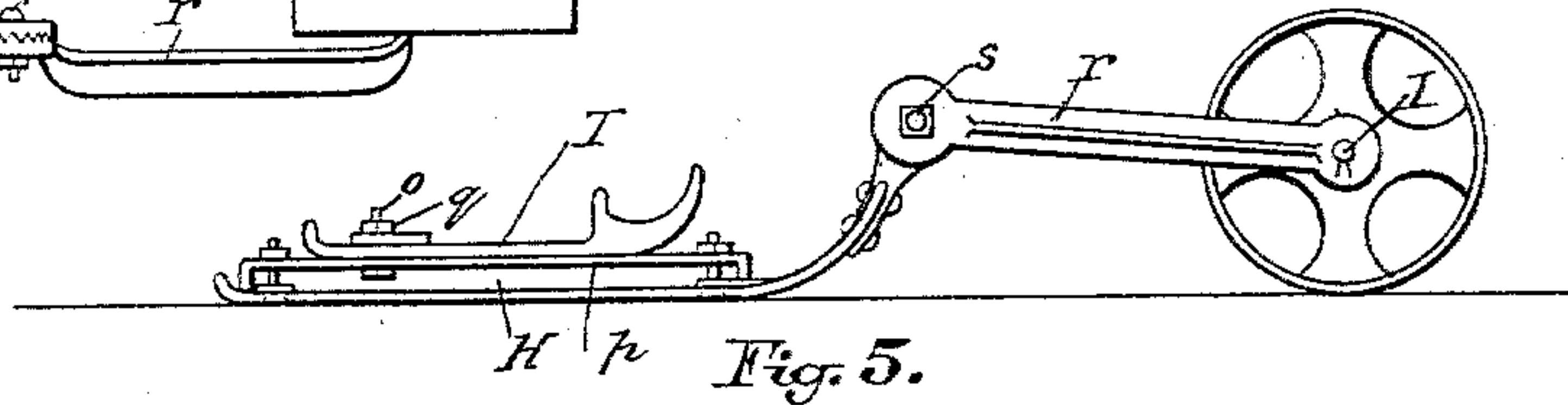


Fig. 5.

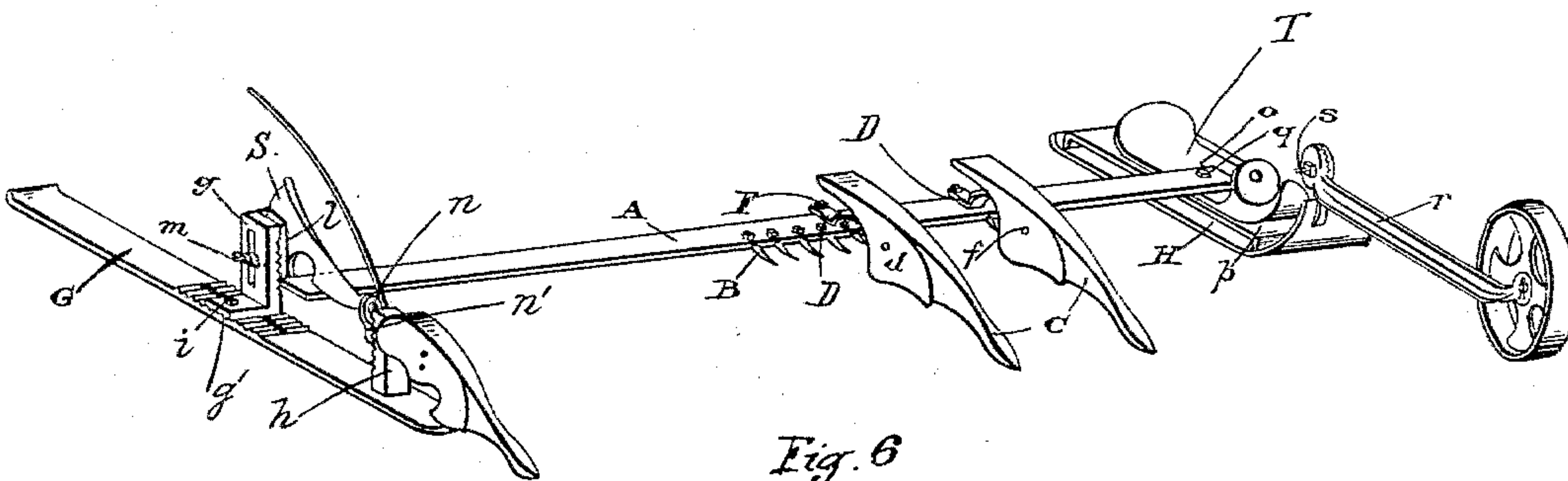


Fig. 6.

Witnesses,

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UNITED STATES PATENT OFFICE.

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PEA-HARVESTER.

SPECIFICATION forming part of Letters Patent No. 593,261, dated November 9, 1897.

Application filed May 13, 1896. Serial No. 591,434. (No model.)

To all whom it may concern:

Be it known that I, GEORGE WETTLAUFER, agent, a citizen of the Dominion of Canada, residing at Stratford, in the county of Perth and Province of Ontario, Canada, have invented certain new and useful Improvements in Pea-Harvesters; and I do hereby declare that the following is a full, exact, and clear description of the same.

10 The invention relates to that class of pea-harvesters consisting of a series of teeth fixed to the finger-bar of an ordinary mower with a detachable inside and outside shoe, so as to raise the pea-straw in such a manner that it may be readily acted upon by the cutter-
15 bar of the mower.

The object of the present invention is to connect the said teeth to the finger-bar that they may be easily attached and readily detached independent of each other and in such a manner that the said finger-bar is not in any way altered or injured by holes or otherwise, the said teeth having a free vertical rocking movement, which will enable them to pass over obstructions without any fear of straining the finger-bar and in such a manner that they will regain their initial position without touching the said obstructions, and consist, essentially, of a series of teeth
25 which are pivoted upon a plate clamped to a finger-bar formed to extend over the same and abut against the end of a guard. The inside and outside shoes (or dividers) are used to raise or lower the finger-bar to suit the ground. The wheel on the inside shoe relieves the weight on the finger-bar, and the length of the outside shoe enables it in crossing furrows to raise the bar and prevent the teeth from sticking on the opposite side of the furrow. On account of its peculiar shape it runs under and raises the pea-straw from off the ground, and does not, like other pea-harvester shoes, shell the peas.

Figure 1 is an enlarged perspective detail showing the manner of connecting the teeth with the finger-bar. Fig. 2 is a perspective detail of the rocking arm and forked clamp by means of which it is attached to the finger-bar. Fig. 3 is a perspective detail of the outside shoe or divider, which is attached to the finger-bar. Fig. 4 is an elevation showing the top of the surface of the inside shoe,
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which is attached to the inside of the shoe on the finger-bar. Fig. 5 is a side elevation of the inside shoe. Fig. 6 is a perspective view of the finger-bar, showing my improved pea-harvester teeth attached, together with the inside and the outside shoes.

A represents a finger-bar of an ordinary mower, and B the guards of the same. A series of teeth C is secured in the following way to the finger-bar A: A bar D, shaped substantially as shown in Fig. 2, is secured to the finger-bar A by means of a forked clamp E, held to the bar D by means of a set screw or bolt F, the said set screw or bolt F passing through one of the series of holes *a* made in the bar D, so that the said bar D may be adjusted longitudinally in order that its projecting end *b* may be brought against the end of one of the guards B, the point of the said guard fitting into one of the holes made in the said projecting ends *b*, as shown in Fig. 1. In this way the bar D is securely held in position. The tooth C has jaws *d* formed in it to fit over the end of the bar D, to which it is held by means of the pivot-pin *f*, passing through the jaws *d* and the bar D. When the tooth C is in its normal position, the shoulder formed on it in front of its pivot butts against the projecting end *b*, so that the said tooth C cannot fall below its proper position.

The outside shoe or divider G is secured in the following manner to the finger-bar A and is shaped substantially as shown in Fig. 3. The shoe G has two uprights *g* and *h*. The upright *h* is rigidly secured to the shoe G, and the upright *g* is provided with serrations *g'*, which engage with similar serrations on the shoe. The upright *g* is secured by the bolt *i* to the shoe after its longitudinal position has been adjusted. The upright *g* has a serrated block *l* interposed between it and the outer guard S, and the upright *g* is provided with serrations for the block *l* to engage with. The outer guard S is adjustably secured to the upright *g* by a bolt *m*, passing through the block *l*, the guard S, and through an elongated hole in upright *g*, and this bolt is secured by a nut on the inside of the upright *g*. The point of the said guard fits into a hole *n* in a block *n'*. The block *n'* is serrated and is secured in engagement with ser-
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rations on the upright *h* by means of a bolt *h'*, which passes through an elongated hole in the block *h* and permits the block *n'* to be adjusted vertically in a similar manner to the block *l*, thereby enabling the finger-bar or teeth to be lowered or raised at will.

The inside shoe *H* is shaped substantially as shown in Figs. 4 and 5 and is secured by a bolt *o*, passing through the shoe-plate *p* and the inside guard *T* of finger-bar *A*, and is secured by a nut *q*. The shoe-plate *p* being bolted at each end to the inside shoe *H*, the ratchet-arm *r* is secured to the inside shoe by a bolt *s*, which allows the teeth and cutter-bar to be raised and lowered at will.

From this description it will be seen that I secure an effective pea-harvester which may be easily applied to a finger-bar of an ordinary mower, that each tooth may be readily attached or detached independently of the others, and that each tooth has a free vertical rocking movement which may be readily arranged to rock any required distance. The inside and outside shoes may be attached or detached readily and without drilling any holes in the finger-bar.

What I claim as my invention is—

1. The combination, with a finger-bar, and its cutter-guards *B*; of bars *D* having their rear parts secured to the finger-bar, extending over the cutter-guards, engaging with their points, and having projecting front end portions *b*; and teeth *C* provided with trough-shaped jaws fitting over the said bars *D* and pivoted to their middle portions, the front portions of the said teeth being supported by the end portions *b* and their rear portions extending upwardly over the rear parts of the bars *D*, substantially as set forth.

2. The combination, with a finger-bar, and its outside guard *S*, of a shoe *G* provided with a slot and serrations, a longitudinally-adjustable upright *g* provided with serrations engaging with the serrations on the shoe, and having a vertical slot and serrations on its side, a serrated block *l* secured to the guard *S* and engaging with the said serrations on the side of the upright *g*, an upright *h* secured to the shoe *G* and provided with a vertical slot and serrations on its side, a block *n'* provided with a hole engaging with the point of the guard *S* and serrations engaging with the serrations on the upright *h*, and bolts securing the block *l* to the upright *g*, the block *n'* to the upright *h*, and the upright *g* to the shoe *G*, substantially as set forth.

3. The combination, with a finger-bar, and its inside guard *T*; of a shoe-plate *p* secured under the guard *T*, a shoe *H* secured under the said shoe-plate and provided with an upwardly-curved front end having a serrated boss, an arm *r* for supporting the ground-wheel and also provided with a serrated boss, and a bolt *s* adjustably connecting the said bosses, substantially as set forth.

4. The combination, with a finger-bar, and its outside guard *S*, of a shoe *G*, a longitudinally-adjustable upright *g* secured to the shoe *G*, a vertically-adjustable block *l* secured to the guard *S*, an upright *h* secured to the shoe *G*, and a vertically-adjustable block *n'* secured to the upright *h* and provided with a hole engaging with the point of the guard *S*, substantially as set forth.

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Witnesses:

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