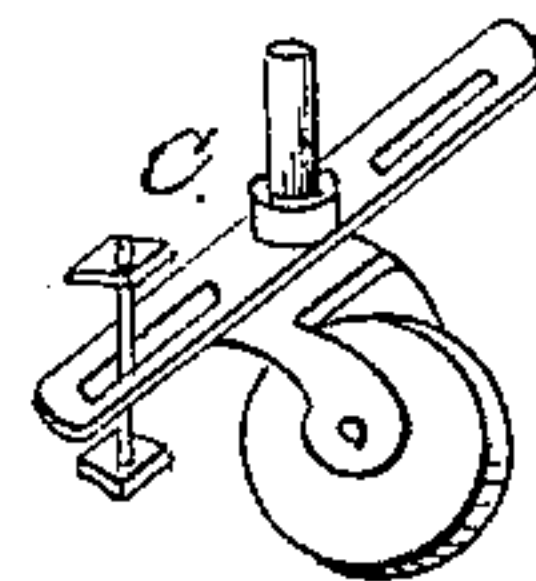
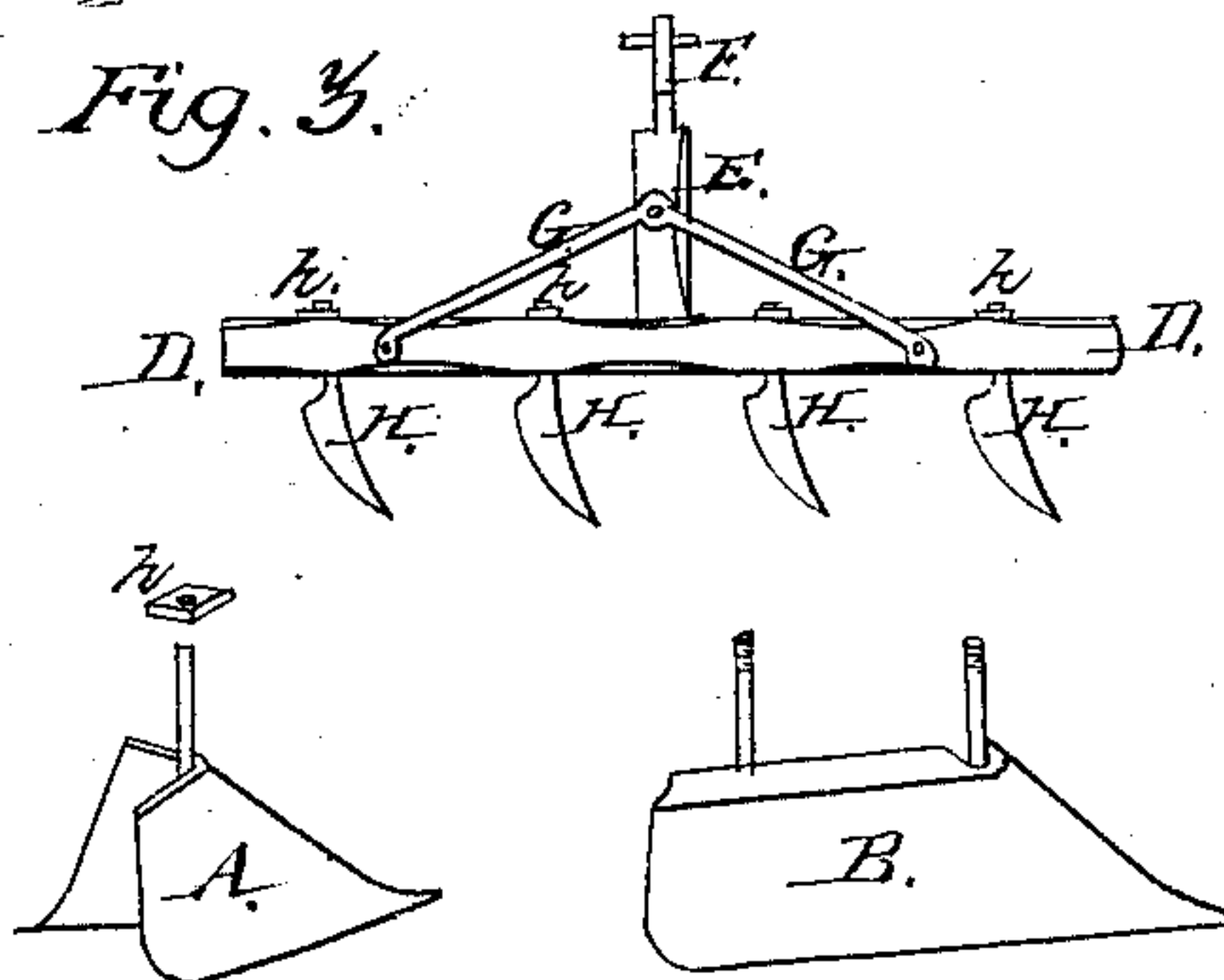
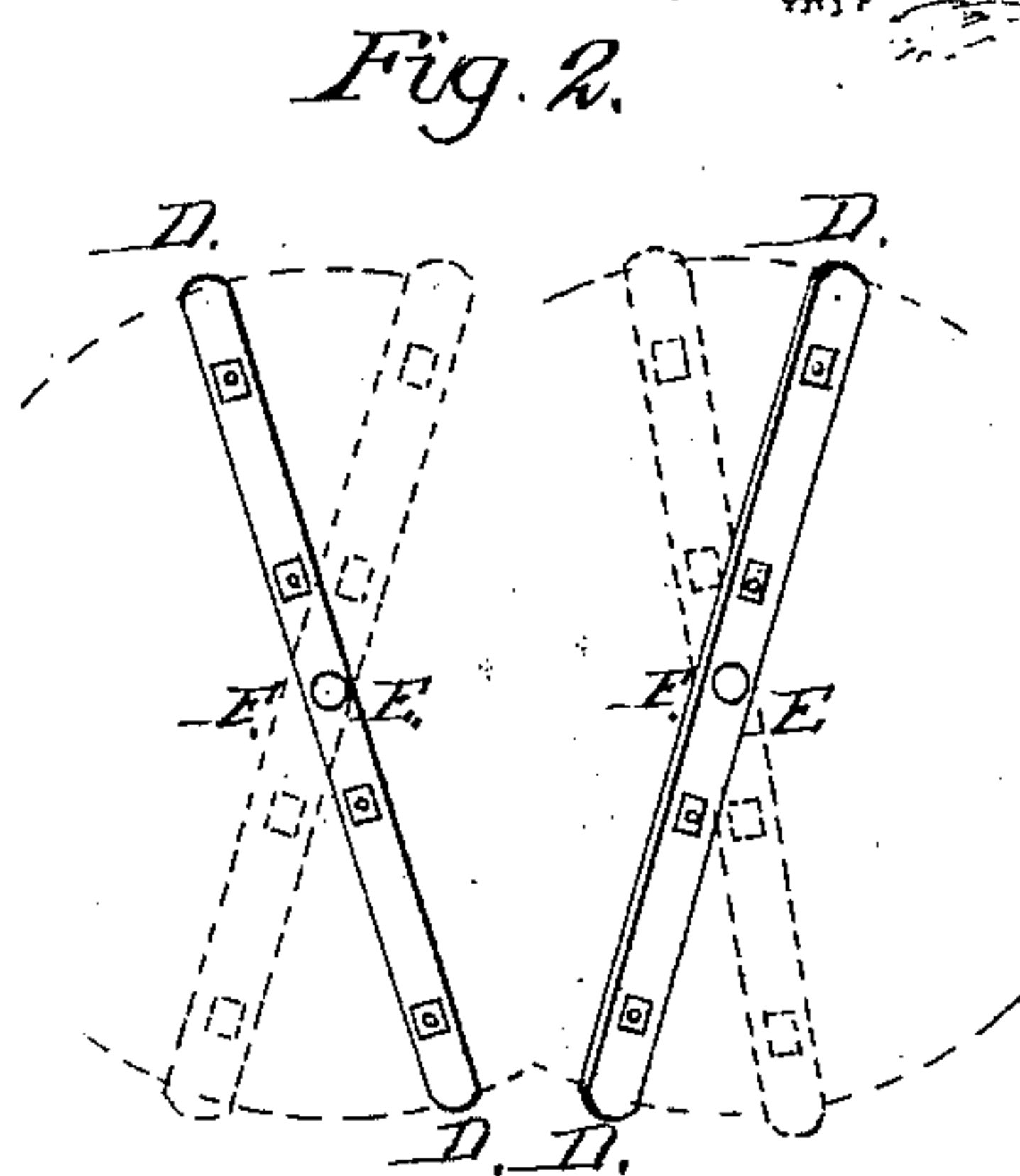
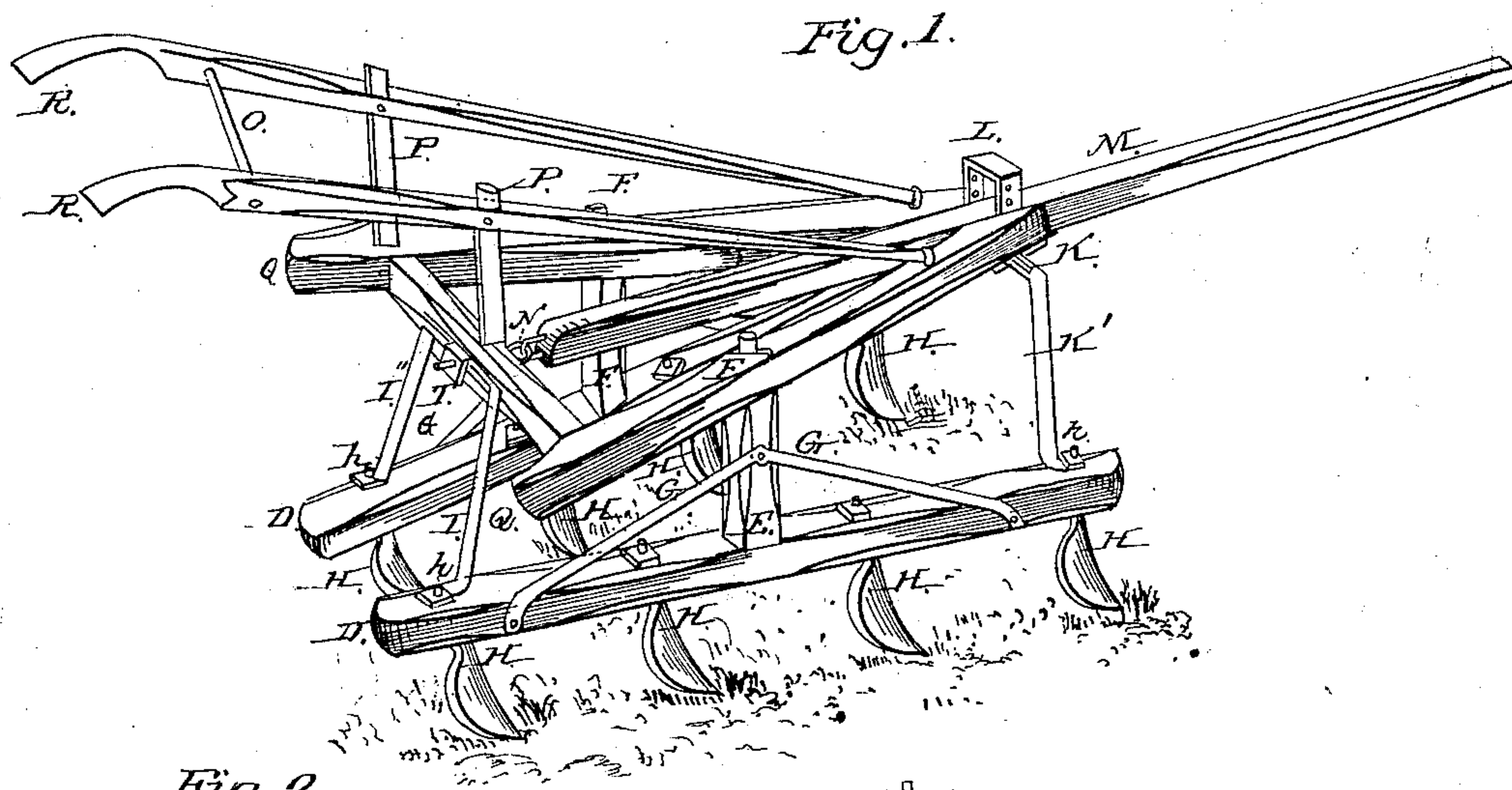


W. GEHR.

Cultivator.

No. 57,699.

Patented Sept. 4, 1866.



Witnesses:

E. G. Snoff.
Marcus H. Darrow.

Inventor:

William Geahr

UNITED STATES PATENT OFFICE.

WILLIAM GEHR, OF NEW HOLLAND, PENNSYLVANIA.

IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. 57,699, dated September 4, 1866.

To all whom it may concern:

Be it known that I, WILLIAM GEHR, of New Holland, in the county of Lancaster, and the State of Pennsylvania, have invented a new and useful Improvement on a Combined Adjustable Cultivator; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view with my improvement in place; Fig. 2, a diagram to illustrate the change of position of the shovel-beam on its central pivot, each respectively; Fig. 3, a side view of my adjustable and reversible shovel-beam detached.

A is one of a pair of scorers; B, one of a pair of scrapers; C, an adjustable caster or pulley-wheel.

The nature of my invention consists in the independent shovel-beams D D beneath an ordinary handled frame, to which it is connected by a central post, E, with a pivot, F, on which it may be turned to any angle, so that either of the ends may come in contact (in front or rear) reversible from a Λ to a V shape, or any intermediate point.

The drawings clearly show my invention and its application.

Q Q, Fig. 1, represent an ordinary frame with its handles R O supported on the uprights P P.

The tongue M, coupled at N, with its regulating iron loop-band L perforated for a retaining-bolt, constitutes the upper frame-work, which may be variously constructed, being no part of my invention.

In addition to the foregoing I append my shovel-beams D D.

Fig. 3 shows four shovels, H, held by the screw-bars *h*, the central pivot-post, F E, braced to the beam D by the iron strap G. These beams D are further connected by screw-bolts to the front and rear of the upper frame, Q Q, by slotted braces K I, held by a screw-bolt and nut, T, in the center of the rear cross-piece from Q to Q. This latter bolt has a ring-head for the coupling N of the tongue M.

The anterior pair of braces, K, are placed and made adjustable on the bed-plate for the

tongue, which plate also unites the two side pieces Q of the upper frame. Both pair of braces in front and rear are bent at, or nearly at, right angles above, with a long slot, *i k*, by which they are made adjustable and held in place by a binding-screw and nut. The lower end of each of said braces K I is connected to the shovel-beam with the same nuts, *h*, that secure the shovels in the front and rear of each beam D, as shown in Fig. 1.

By means of my shovel-beams D being centrally held or supported by the pivot-post F E and the long-slotted end braces K I, I obtain great latitude in the adjustment from parallel lines or position to any required angle, right or left, being easily shifted and adjusted.

The front braces, K' K'', can change position with the rear braces, I' I'', in order to reverse the position of the beams, so that this arrangement adapts the frame-work admirably for various agricultural purposes, and is convertible with ease into a double scorer by removing the shovels, adding the pulley-wheel C, and the scoring-plows A. The scrapers B can also be substituted, and, in short, all the labor can be performed with this implement usually requiring a shovel-harrow, scraper, scorer, and cultivator, and cannot fail to be a highly desirable agricultural implement.

I am aware that there is no end to the numerous adjustable cultivators and the like embracing many features common to those I employ, so that I do not claim the slotted braces, shovels, scorer, scraper, or upper frame-work; but I am not aware that an independent shovel, scorer, or scraper-beam held by a central pivot was ever before employed for agricultural purposes substantially in the manner herein described.

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

The independent adjustable and reversible beams D D, in combination with the upright E F, when connected with a suitable frame-work, substantially in the manner and for the purpose specified.

WILLIAM GEHR.

Witnesses at signing:

E. G. GROFF,
MARCUS H. DARROW.