

No. 651,915.

Patented June 19, 1900.

J. YOUNGBLOOD.  
CULTIVATOR.

(Application filed Dec. 30, 1899.)

(No Model.)

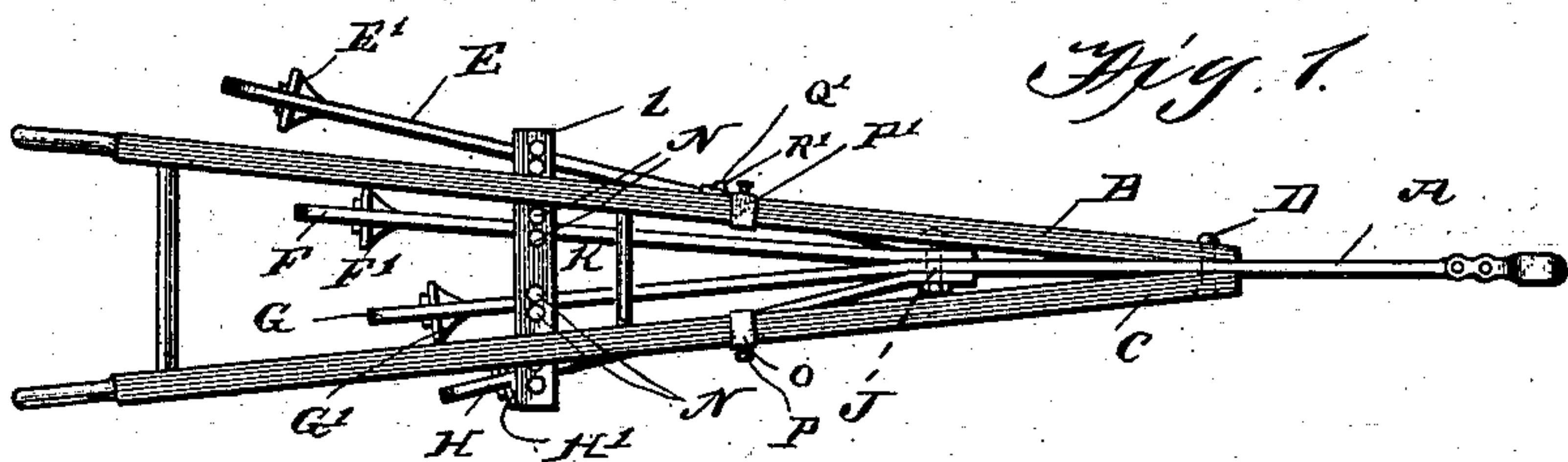


Fig. 1.

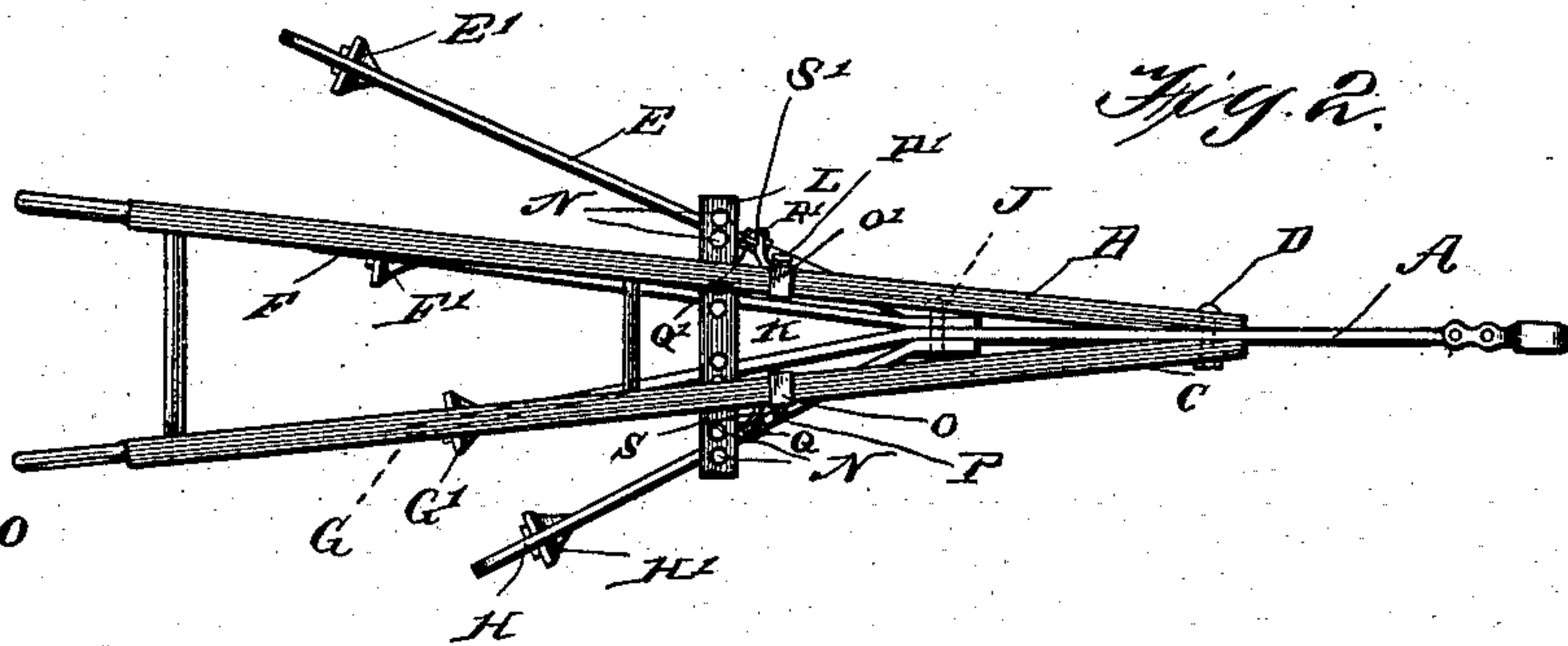


Fig. 2.

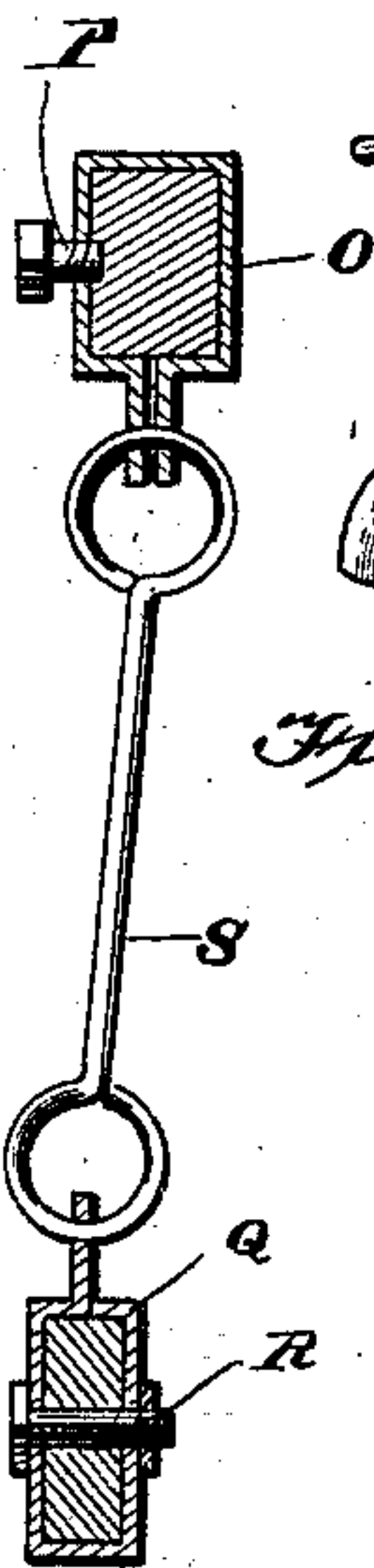


Fig. 5.

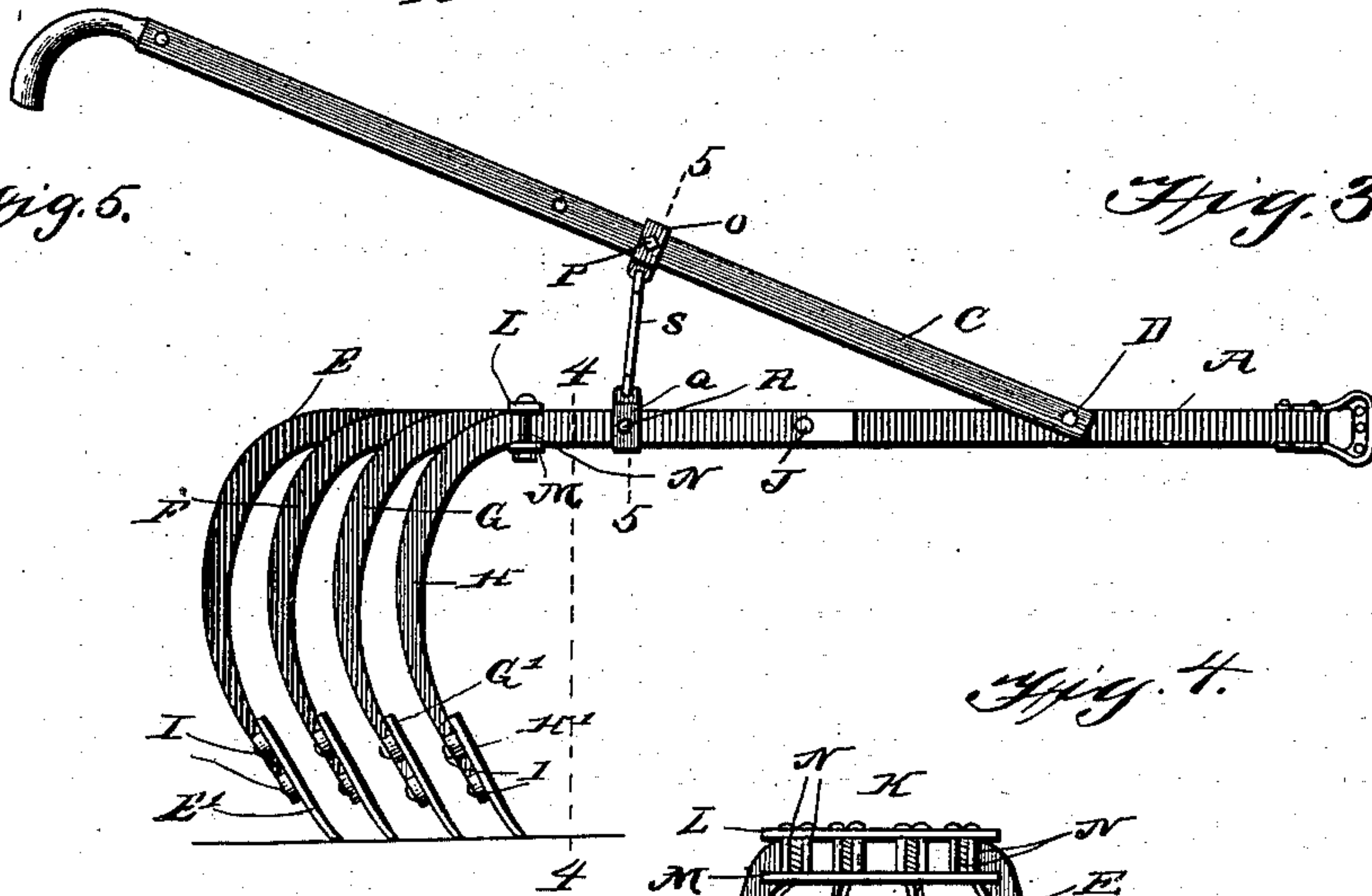


Fig. 3.

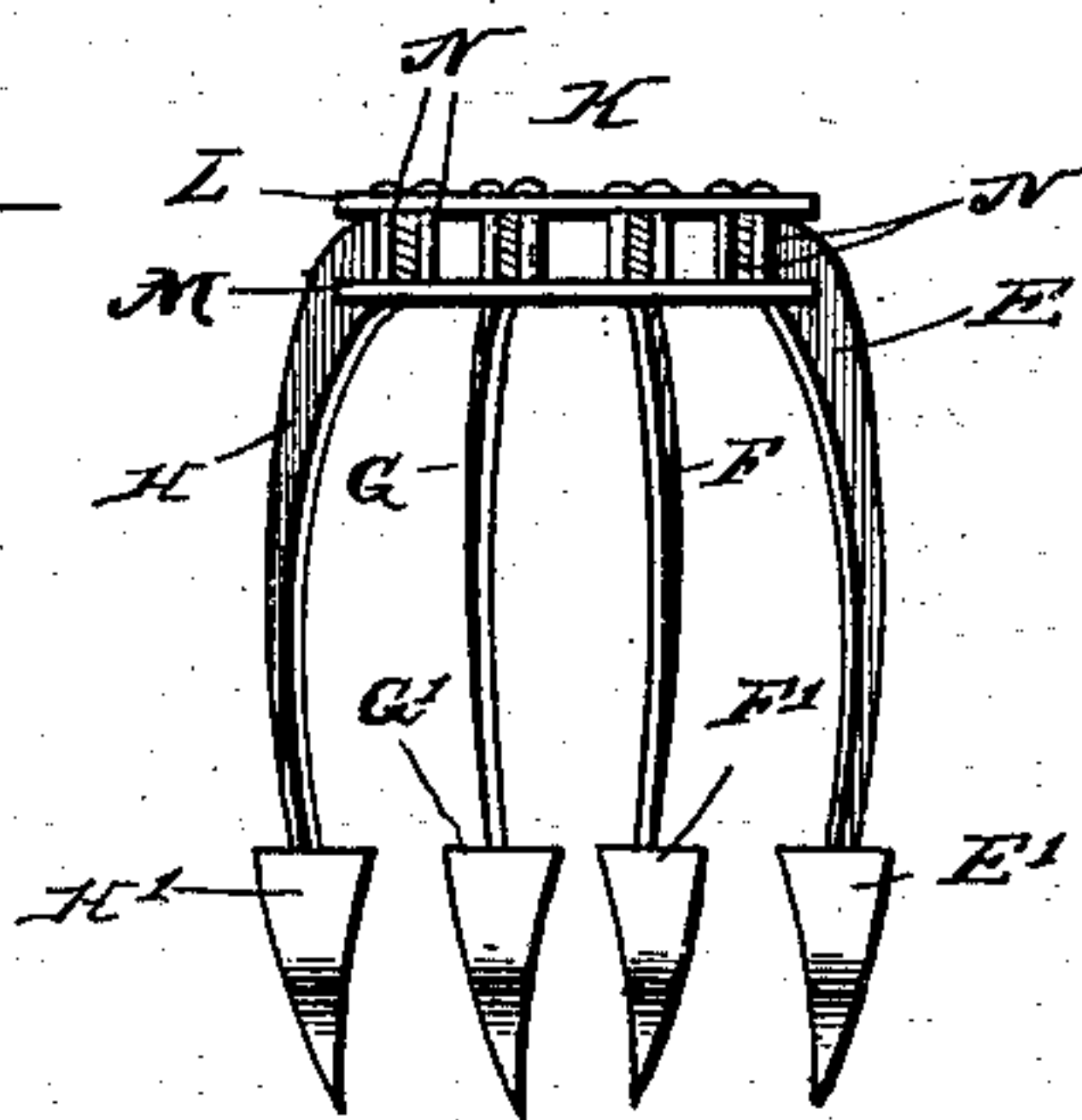


Fig. 4.

Witnesses  
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# UNITED STATES PATENT OFFICE.

JOSEPH YOUNGBLOOD, OF FLETCHER, NORTH CAROLINA.

## CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 651,915, dated June 19, 1900.

Application filed December 30, 1899. Serial No. 742,043. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH YOUNGBLOOD, a citizen of the United States, residing at Fletcher, in the county of Henderson and State of North Carolina, have invented a new and useful Improvement in Cultivators, of which the following is a specification.

My invention relates to cultivators or shovel-plows, and has for its object to provide an improved and simplified form of such implement in which effectual means will be provided for laterally adjusting the shovels and correspondingly adjusting the handles.

In the drawings forming part of this specification, Figure 1 is a top plan view of a cultivator constructed in accordance with my invention, with four shovels adjusted close together and the handle-securing braces being omitted. Fig. 2 is a similar view with the shovels in a wider adjustment. Fig. 3 is a view of the cultivator in side elevation. Fig. 4 is a vertical sectional view on the plane indicated by the broken line 4 4 of Fig. 3 looking toward the rear. Fig. 5 is a sectional view on the plane indicated by the broken line 5 5 of Fig. 3.

Like letters of reference mark the same parts wherever they appear in the several figures of the drawings.

Referring to the drawings by letters, A indicates the beam of a cultivator, to which handles B and C are removably connected by bolts D.

E, F, G, and H indicate shanks or standards of spring metal, one of which is shown as an extension of the beam, to which are secured shovels E', F', G', and H' by means of bolts I, the rear ends of the standards being bent downward, as is usual, and the shovels secured to the lower ends. These standards (four in number, although the number may be varied) are secured to the rear end of the beam by a bolt J.

K indicates an adjusting-frame for clamping the standards, consisting of a bar L to rest on the tops of the standards, a bar M to rest under the standards, and bolts N in pairs connecting the bars, there being a bolt on each side of each standard.

O O' indicate a pair of slidable bands securable in position on the handles B and C by means of set-bolts P P', threaded through the links and bearing against the handles. Q Q' indicate similar bands fixedly secured upon the standards E and H by means of bolts R R', the bands O O' and Q Q' being connected by link-bars S S'.

The bolts N being fixed in the adjusting-frame K so far as lateral movement therein is concerned, movement of said frame on the standards will increase or decrease their angles to each other and adjust the shovels farther apart or nearer together, as the case may be, and by tightening up the bolts the standards and shovels will be rigidly secured in any adjustment.

When the standards are adjusted farther apart, the link-bars S S' will be carried with them and tend to pull the handles downward. This would in some cases bring them too low, and in order to adjust them to suit the user the bands O and O' may be moved backward or forward and secured in any adjustment by the set-bolts P P'. By loosening the bolts D and P P', sliding the bands O O', and then securing bolts P P' and D the adjustment of the handles may be quickly made.

The means may for adjusting the handles may be varied and slight changes made in other constructions without departing from the spirit and scope of my invention. It will also be obvious that the adjusting mechanism described will operate as well with more or less standards than are shown and described. It will thus be observed that the standards E, F, G, and H are progressively increased in length, so that each successive shovel runs close behind its predecessor, thus preventing trash from lodging between the plows, each one passing it to its successor until the last one leaves it behind.

When there are an even number of standards, as in the present instance, the one that is formed from the extension of the beam is bent a trifle to one side, so as to cause the center of draft of the cultivator to lie midway between the shovels.

Having thus fully described my invention,

what I claim as new, and desire to secure by Letters Patent of the United States, is—

In a cultivator, the combination, with a beam, of handles and laterally-diverging standards secured thereto, means for adjusting the standards laterally, two bands rigidly secured to two of the standards, a band ad-

justably secured to each of the handles, and a link from the band on each handle to the corresponding band on the standards.

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