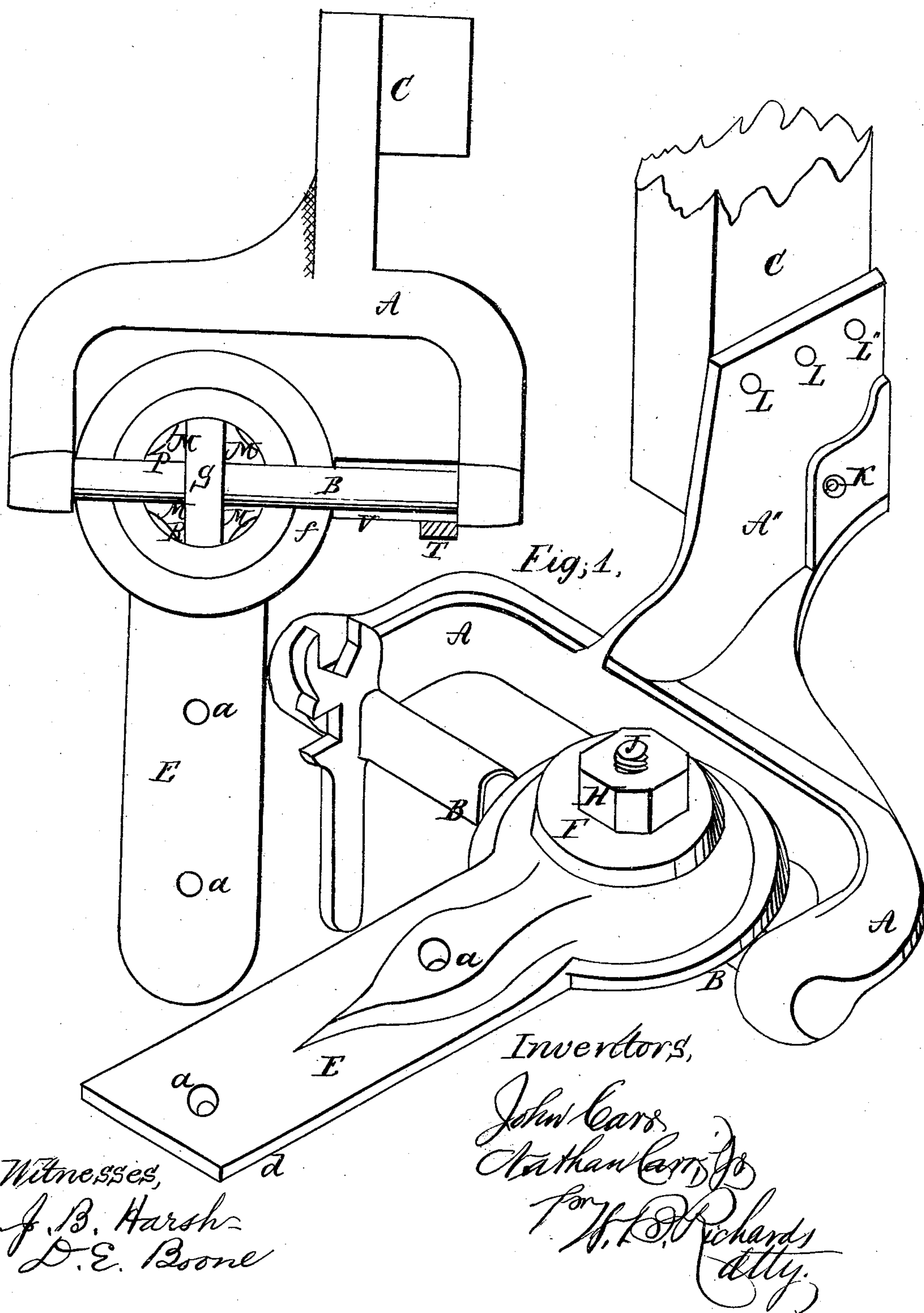


N. & J. Carr.

Cultivator.

N^o 85,509.

Patented Jan. 5, 1869.



United States Patent Office.

NATHAN CARR, JR., AND JOHN CARR, OF MONMOUTH, ILLINOIS.

Letters Patent No. 85,509, dated January 5, 1869.

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 we, NATHAN CARR, JR., and JOHN CARR, of the city of Monmouth, county of Warren, and State of Illinois, have invented certain new and useful Improvements in Cultivators; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a portion of this specification, in which—

Figure 1 is a perspective view of our invention.

Figure 2 is a bottom or under-side view.

Similar letters of reference indicate corresponding parts in both figures.

The nature of this invention relates to a joint for connecting the beams of cultivators to the main frame; and

The invention consists of the different parts being so formed and arranged as to admit of adjusting the distance of the plows apart, and their height from the ground, or depth of running; also, allowing free vertical and lateral movement of the plows, at the same time holding them firm against a wobbling or unsteady motion.

To enable others to understand the construction and operation of our invention, we will proceed to describe it with reference to the drawings.

A represents a semicircular casting, attached to the main frame C, of the cultivator, by pivot-bolt K and bolt L, in the vertical arm, extending from forward side of said casting C.

B represents the coupling-spindle, which is supported or held between the ends of the semicircular part of casting A.

d represents the end of an ordinary beam, and

E represents a top-beam plate, with a circular enlargement at the forward end, and concave on the under side, except a small flat part, *f*, next the periphery, which acts as a bearing on the spindle B. This plate E is secured to the beam by bolts *a a*.

M represents a cylindrical bearing-plate, passing

through a hole in the plate E, and forming the journal, on which lateral movement of the plows is obtained.

F represents the head of cylinder M.

P and R represent transverse slots in the lower end of cylinder M; the slots P forming the bearing on the spindle B, on which the vertical movement of the plows is obtained, the extended sides of plate E at the same time resting on the spindle B, forming a perfect support and preventive against wobbling or unsteady movement of the plows.

The slots R, in cylinder M, allow the hook S to embrace the spindle B, and the shank of hook S passes up through the cylinder M, and is provided with nut H, by which the whole device is held together and regulated.

T represents a wrench, with a flat hook, V, fitting the spindle B, and it may be placed on the spindle, at either side of plate E, for the purpose of adjusting the distance of the plows apart.

The whole device being pivoted at K, admits of lowering or raising the points of the beams by changing the bolt through holes L L L.

Having thus described our invention,

What we claim as new, and desire to secure by Letters Patent, is—

The plate E, cylinder M, and hook S, with nut H, constructed and arranged as described, and combined with spindle B, wrench T, and casting A, the whole being constructed, operated, and arranged in the manner substantially as described, and for the purpose set forth.

Dated at Monmouth, this 24th day of October, 1868.

NATHAN CARR, JR.
JOHN CARR.

Witnesses:

JNO. E. ALEXANDER,
D. D. RANDALL.