

J. Wilhelm.

Cultivator.

N^o 41,562.

Patented Feb. 9, 1864.

Fig. 1.

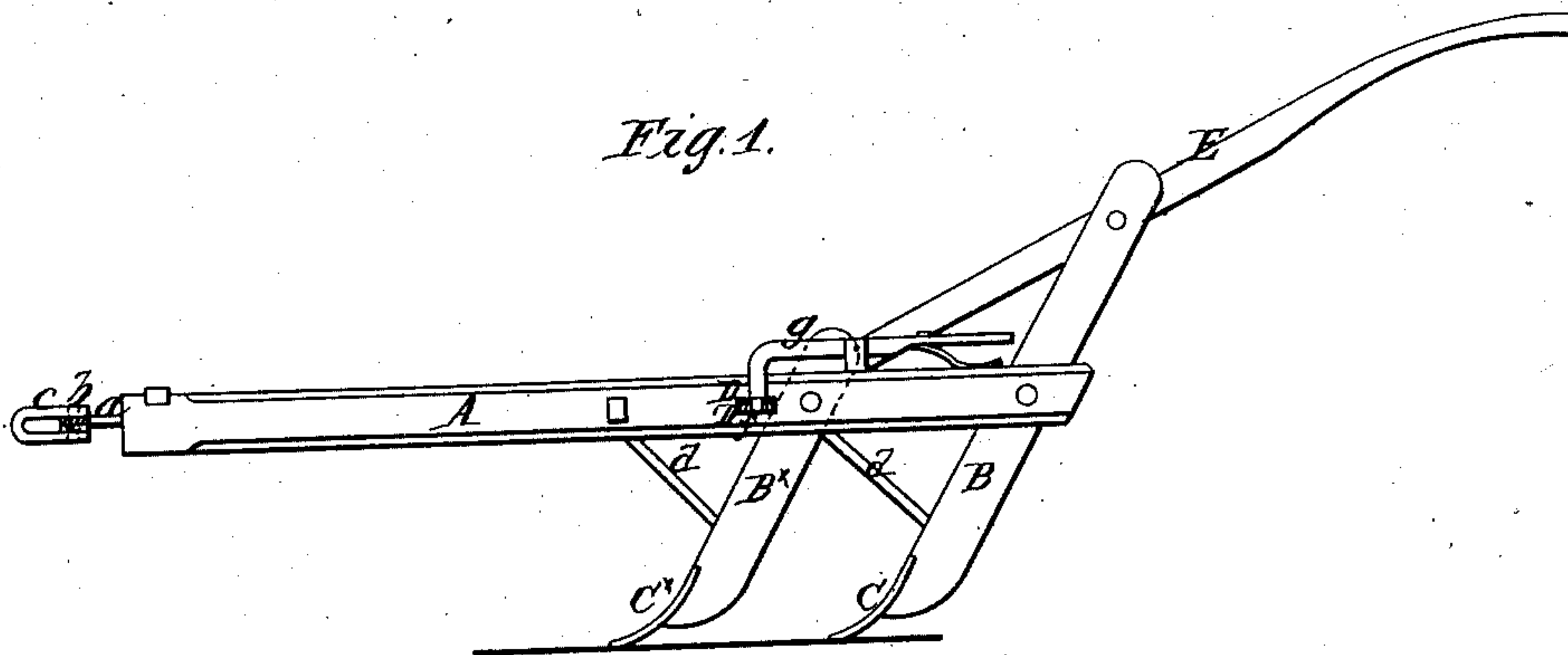
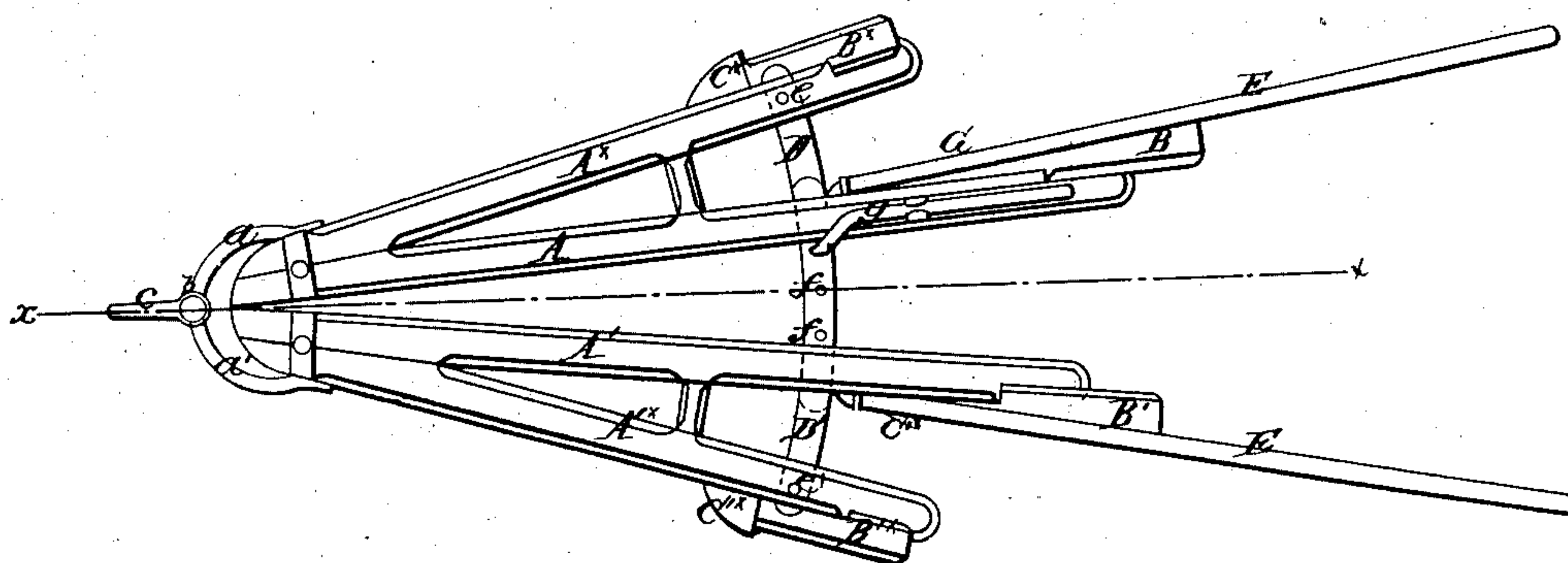


Fig. 2.



Witnesses:

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JOSEPH WILHELM, OF MUSCATINE, IOWA.

IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. 41,562, dated February 9, 1861.

To all whom it may concern:

Be it known that I, JOSEPH WILHELM, of Muscatine, in the county of Muscatine and State of Iowa, have invented a new and Improved Cultivator; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 represents a longitudinal vertical section of my invention, the line *x x*, Fig. 2, indicating the plane of section. Fig. 2 is a plan or top view of the same.

Similar letters of reference in both views indicate corresponding parts.

This invention relates to an improvement in that class of cultivators which are constructed with two wings hinged together and arranged so that they can be expanded or contracted at pleasure, according to the width of the furrows through which the cultivator is intended to pass.

The nature of this invention and its particular advantages will be readily understood from the following description.

A A' represent two beams, made of wood or any other suitable material, and connected together at their front ends by means of arms *a a'* and a pivot, *b*, in such a manner that they can be expanded or contracted at pleasure. The arms *a a'* are rigidly attached to the beams A A', and the pivot *b*, which connects said arms, also forms the fulcrum-pin of the clevis *c*. By this arrangement said clevis will retain its position on the center line whether the beams are contracted or expanded, and a strain exerted on the same will be transmitted uniformly to both beams. Each of the beams A A' has rigidly attached to its outside a secondary beam, A* A*, and the standards B B* and plows C C* are secured to the beam A A, and the standards B' B' and plows C' C' to the

beam A' A'*, in the ordinary manner, the standards being secured in their position by suitable braces, *d*. Said secondary beams are arranged in such relation to the main beams that the distance between the plows C and C*, or between the plows C' C'*, is equal to the width of the furrows through which the cultivator passes. The position of the beams A A' in relation to each other is determined by two arms, D D', which are hinged by means of pivots *e e'* to the secondary beams A' A'*, and pass through slots in the main beams. These arms are provided with a series of holes, *f*, and they are retained in the desired position by a spring-catch, *g*, the point of which drops into corresponding holes in both arms. Said spring-catch is connected to one of the beams in such a position that it can be conveniently reached by the operator guiding the plow. By expanding or contracting the arms the cultivator is set to correspond to the distance of the rows, and in passing through between the rows it is guided by the handles E in the usual manner.

This cultivator is very simple in its construction, it is easily operated, and all its parts are so arranged that they are not liable to get out of order.

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

1. Having the arms *a a* jointed at the center and combined with the clevis *c* in the manner and for the purpose herein shown and described.

2. The arrangement of the spring-latch *g* with the beam A and arms D D in the manner and for the purpose herein shown and described.

JOSEPH WILHELM.

Witnesses:

ISAAC COOVER,
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