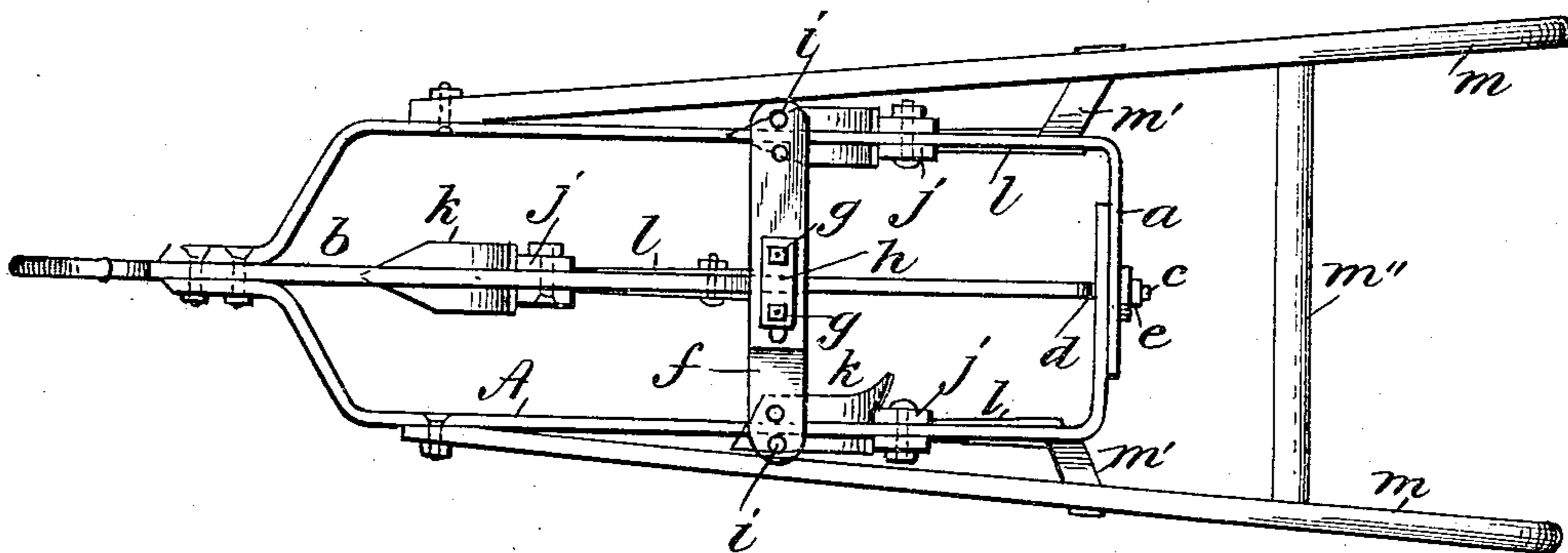


No. 792,392.

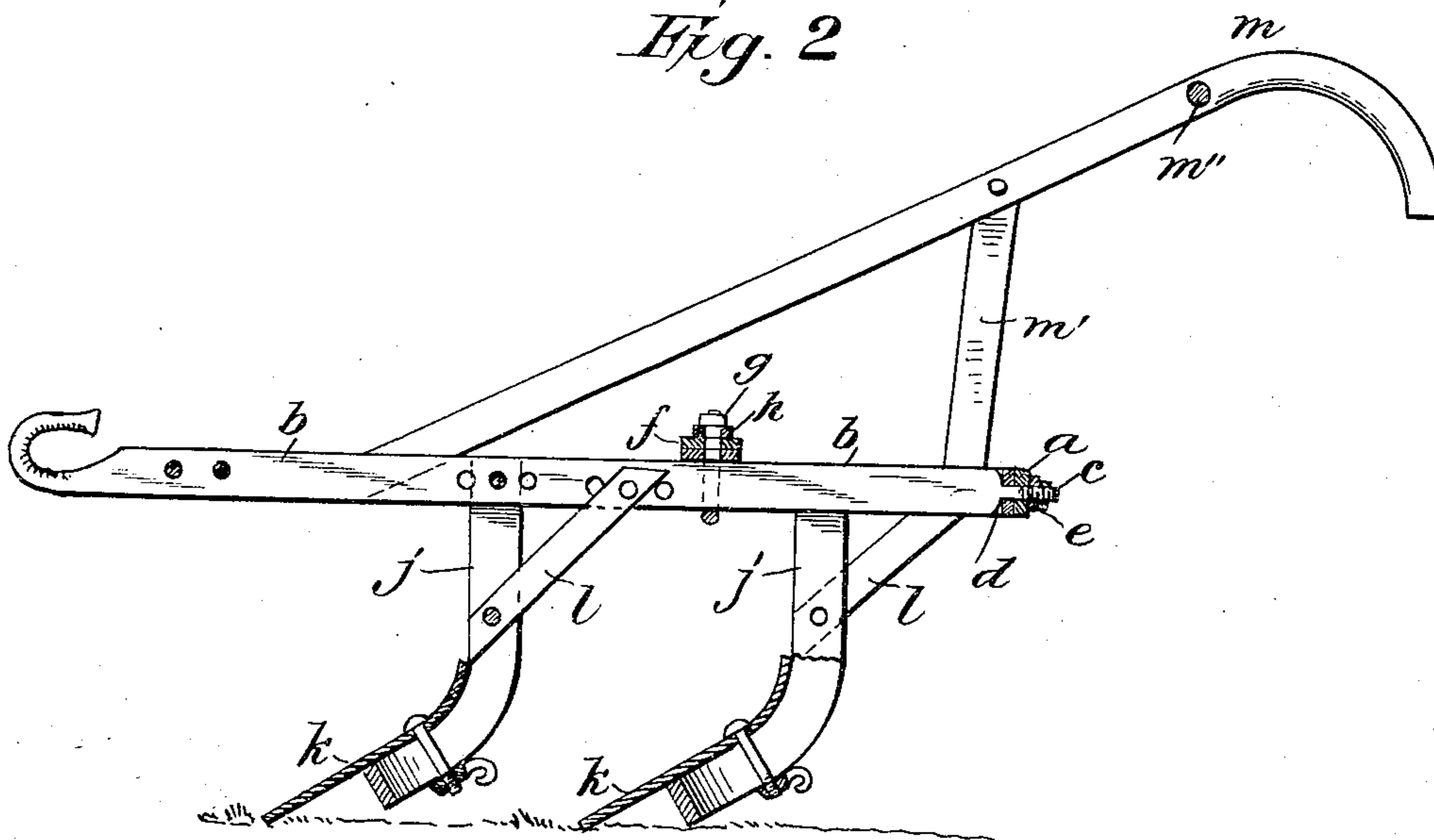
PATENTED JUNE 13, 1905.

J. F. BOWERS.  
PLOW OR CULTIVATOR STOCK.  
APPLICATION FILED FEB. 23, 1905.

*Fig. 1.*



*Fig. 2.*



WITNESSES:

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# UNITED STATES PATENT OFFICE.

JAMES FRANKLIN BOWERS, OF SANFORD, NORTH CAROLINA.

## PLOW OR CULTIVATOR STOCK.

SPECIFICATION forming part of Letters Patent No. 792,392, dated June 13, 1905.

Application filed February 23, 1905. Serial No. 247,018.

*To all whom it may concern:*

Be it known that I, JAMES FRANKLIN BOWERS, a citizen of the United States, residing at Sanford, in the county of Moore and State of North Carolina, have invented new and useful Improvements in Plow or Cultivator Stocks, of which the following is a specification.

This invention has relation to that class of plow or cultivator stocks in which a plurality of plows or shovels are fixed.

It is the object of the invention to provide a structure which shall be at once light, strong, stiff, or rigid when in use and adjustable in various particulars to suit various circumstances, all as hereinafter described.

The annexed drawings and letters of reference marked thereon form a part of this specification and are to be referred to as such.

Of the said drawings, Figure 1 is a plan view of the invention. Fig. 2 is a central longitudinal sectional view.

The same letters of reference designate the same parts in both views.

A designates the outside frame, which is of rectangular form excepting that at the forward end the steel bars which compose the frame instead of extending across directly from one to the other project forward slightly, their forward ends lapping upon the steel draft-bar *b*, to which they are secured. The steel draft-bar *b* extends centrally through the frame and is provided on its front end with means for securing a clevis thereto. At its rear end the draft-bar is reduced and constructed with a screw-thread, as at *c*. This screw-threaded end extends through the overlapping and slotted rear ends of the outside frame *a*. The end *c* extends through the said slots to the shoulders *d*, formed by the reduction of said end, and a nut *e* turned on its projecting portion serves to hold the parts together and to render the frame adjustable as to width.

*f* designates a cross-bar which consists of two bars of steel slotted at their inner ends and secured together at that point by bolts and nuts *g* and a cap *h*. This renders the cross-bar adjustable as to length and holds the parts of bar *f* against slipping one upon the other. At their ends the bar *f* is suit-

ably connected, as at *i*, with the side bars, so that the frame can be adjusted as before said.

*j* designates the plow-standards, each of which is formed, as shown, by doubling a length of a bar of steel upon itself, curving it forward at its lower end to form a seat for the plow *k*, which is secured thereto by bolts and screws or other secure fastening means. With this construction the bolt or other fastening means can be passed between the two parts of doubled steel, securing at once a convenient, strong, and an easily-fastened and adjustable structure. The standards *j* are suitably connected at their upper ends to the bars *b*, and brace-bars *l* are connected at the rear of the standards *j* at their upper ends to the side bars *a* and at their lower ends to the plow-standards behind the plows. The upper end of the central plow-standard and its brace are connected at its upper end to the draft-bar.

*m* represents handles of usual form, which are inclined forwardly and secured at their lower ends upon the side bars *a*. Vertical brace-bars *m'* are secured at their rear ends to the handles and at their lower ends to the side frames. A brace-bar *m* extends between the two handles at their upper ends. This construction stiffens the frame and forms a means whereby the entire structure may be conveniently and readily guided in its work.

*l* represents brace-bars composed of duplicate bars welded together at their forward ends and pivoted to the plow-standard midway its ends, the divided portion of the brace projecting rearward and embracing one of the frame-bars.

I am aware that it has been proposed heretofore to construct the standards for carrying the plows on double portions of metal and curved forwardly from the top to the bottom in substantially the same plane. My construction differs from this in that I form a standard of a length of bar-steel doubled upon itself and extending downward first in a straight line and then inclined forward in substantially the same plane, forming a seat for the plow that may be adjusted on the inclined portion to a greater or less depth without changing materially the inclination of the plow. In the cases heretofore referred

to, where the plow has been arranged upon a standard of regular curvature, the adjustment of a plow thereon up or down will vary the inclination of the plow working in the ground. This is the vital feature of my invention.

The stock is strong, stiff, and durable, and the construction is such that after having been once properly adjusted it need not be "tinkered" with in the field or elsewhere to keep the parts in position.

What I claim as new and as of my invention is—

In a cultivator, a frame composed of three bars and handles attached at the front and outside of the two outside bars; adjoining tooth-standards attached to the forward portion of the frame-bars, said standards being provided with braces composed of duplicate

bars welded together at their forward ends and pivoted to the tooth-standards midway their ends, the divided portion of the braces projecting rearward and embracing the frame-bars; handles attached to the forward ends of the frame-bars and projecting rearward; a handle-brace at the rear portion thereof; one end attached to the handle and the other to one of the outside frame-bars, and a single bolt securing the separated ends of the tooth-braces and the handle-braces to the frame-bar.

In testimony whereof I have, this 21st day of February, 1905, subscribed my name in the presence of two subscribing witnesses.

JAMES' FRANKLIN BOWERS.

Witnesses:

S. P. HATCH,

H. S. HATCH.