(No Model.)

A. RUNSTETLER.

CORN PLANTER.

No. 301,072. Patented June 24, 1884.

Fig. 1.

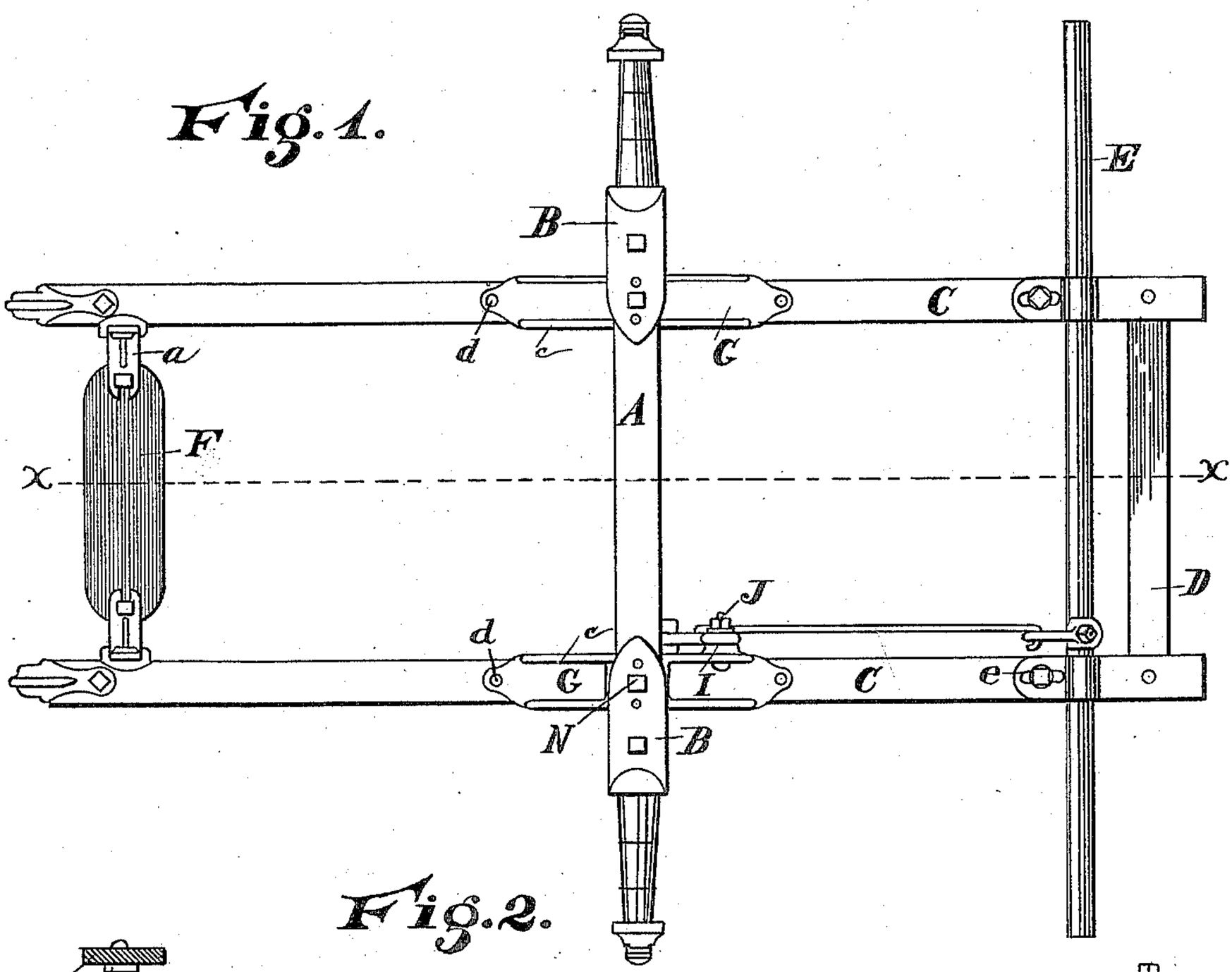

Fig. 2.

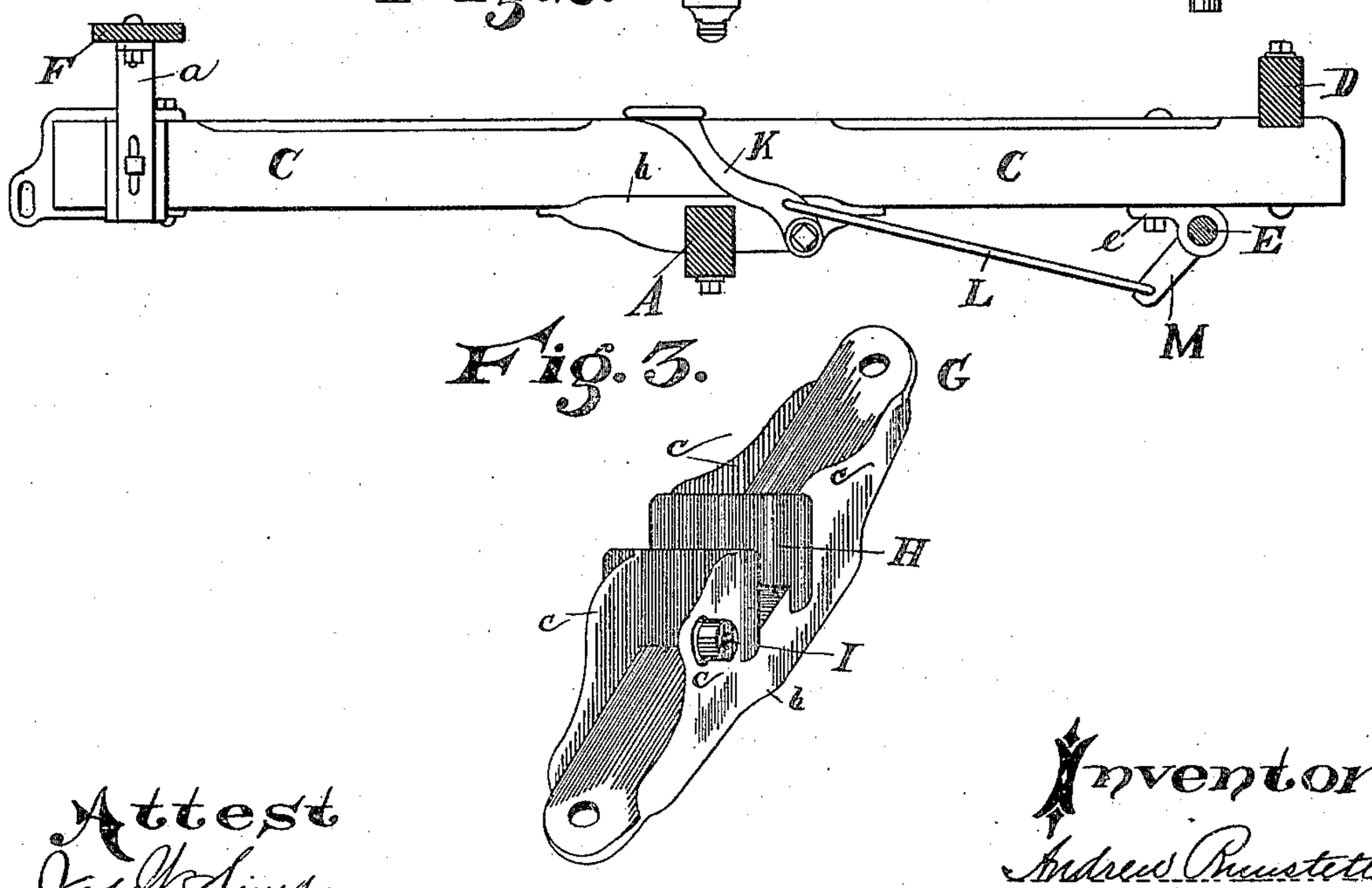

Fig. 3.

Attest

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UNITED STATES PATENT OFFICE.

ANDREW RUNSTETLER, OF DAYTON, OHIO, ASSIGNOR TO THE FARMERS FRIEND MANUFACTURING COMPANY, OF SAME PLACE.

CORN-PLANTER.

SPECIFICATION forming part of Letters Patent No. 301,072, dated June 24, 1884.

Application filed March 17, 1884. (No model.)

To all whom it may concern:

Be it known that I, ANDREW RUNSTETLER, a citizen of the United States, and a resident of Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Corn-Planters, of which the following is a specification.

My invention relates to an improvement in the frame of corn-planters, and particularly to the main frame of that class of corn-planters which employs a front runner-frame, all of which will be fully set forth in the description of the accompanying drawings, in which—

Figure 1 represents a bottom plan view of the main frame of a corn-planter with my improvement applied; Fig. 2, a central longitudinal elevation on line *x x*, Fig. 1; Fig. 3, a perspective view of my improved coupling-brace.

The object of my invention is to make a substantial corn-planter frame which will not spring or sag out of line, having sufficient rigidity to resist the strains to which it is subjected.

A represents the ordinary axle of the main frame of a corn-planter.

B B represent metallic stub-axles secured upon the shaft A.

C C represent side pieces.

D represents the rear frame-piece.

E represents the scraper-shaft, which is journaled to the frame-pieces C by brackets *e*.

F represents the dropper-seat, which is secured to the front end of the rails C by adjustable brackets.

My method of uniting the axle to the side rails dispenses with the necessity of the brace forward of the axle. A cross-brace forward of the axle would interfere with the movements of the runner-frame and levers which lie between the rails C C forward of the axle A. In order to make the same rigid and durable and to prevent sagging, I provide coupling-braces G, which are formed of metal in one piece.

H represents a recess or gain in which the axle A is inserted.

h h represent flanges formed upon the under side of the coupling, which grasp the sides of the rail.

c represents flanges on the top side of the coupling-braces, which extend forward and backward from the vertical side of the gain H, and sloping off to either end of the same, so as to lighten the casting. Instead of the four vertical flanges *c*, a single central strengthening-rib might be employed upon each side of the vertical gain-plates, making a strong but light coupling-brace. The coupling-braces G are secured to the side rail, C, by bolts *d*, and the axle A is rigidly secured to the same by a through-bolt, N.

I represents a boss formed in one of the coupling-braces G.

J represents a pivot-bolt inserted through the center of the boss I, upon which bolt is journaled a foot-lever, K.

L represents a connecting-rod hinged to the crank-arm M, which is secured to the scraper-shaft E. The foot-lever K is located in convenient position to be readily accessible to the operator's foot.

I claim—

1. In combination with the axle A and side rails, C C, of the main frame of a corn-planter, the coupling-braces G, shaped to fit the rails C, and recessed to receive and hold the axle A, substantially as specified.

2. In combination with the rails C of a corn-planter frame, and the axle A, the coupling-braces G, secured to the rails C by bolts *d*, with a through-bolt, N, securing the axle to the frame, and coupling-braces, substantially as specified.

3. In combination with one of the coupling-braces G, the boss I, and through-bolt J, and foot-lever K, journaled thereon, substantially as specified.

In testimony whereof I have hereunto set my hand.

ANDREW RUNSTETLER.

Witnesses:
J. F. CAMPBELL,
HARRY H. PRUGH.