

(No Model.)

2 Sheets—Sheet 1.

J. R. FITZHUGH.

HAND CART.

No. 342,905.

Patented June 1, 1886.

Fig. 1.

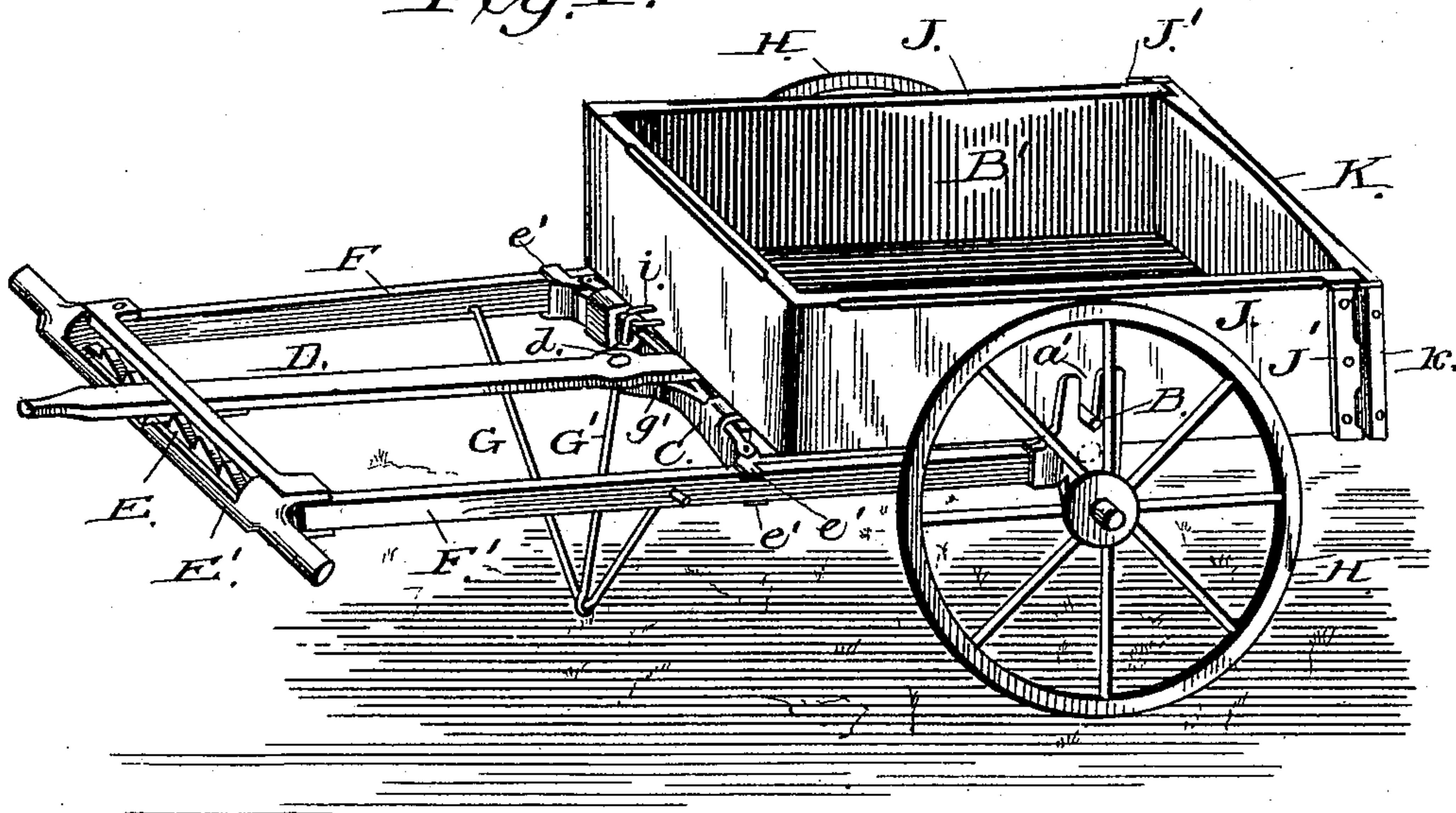
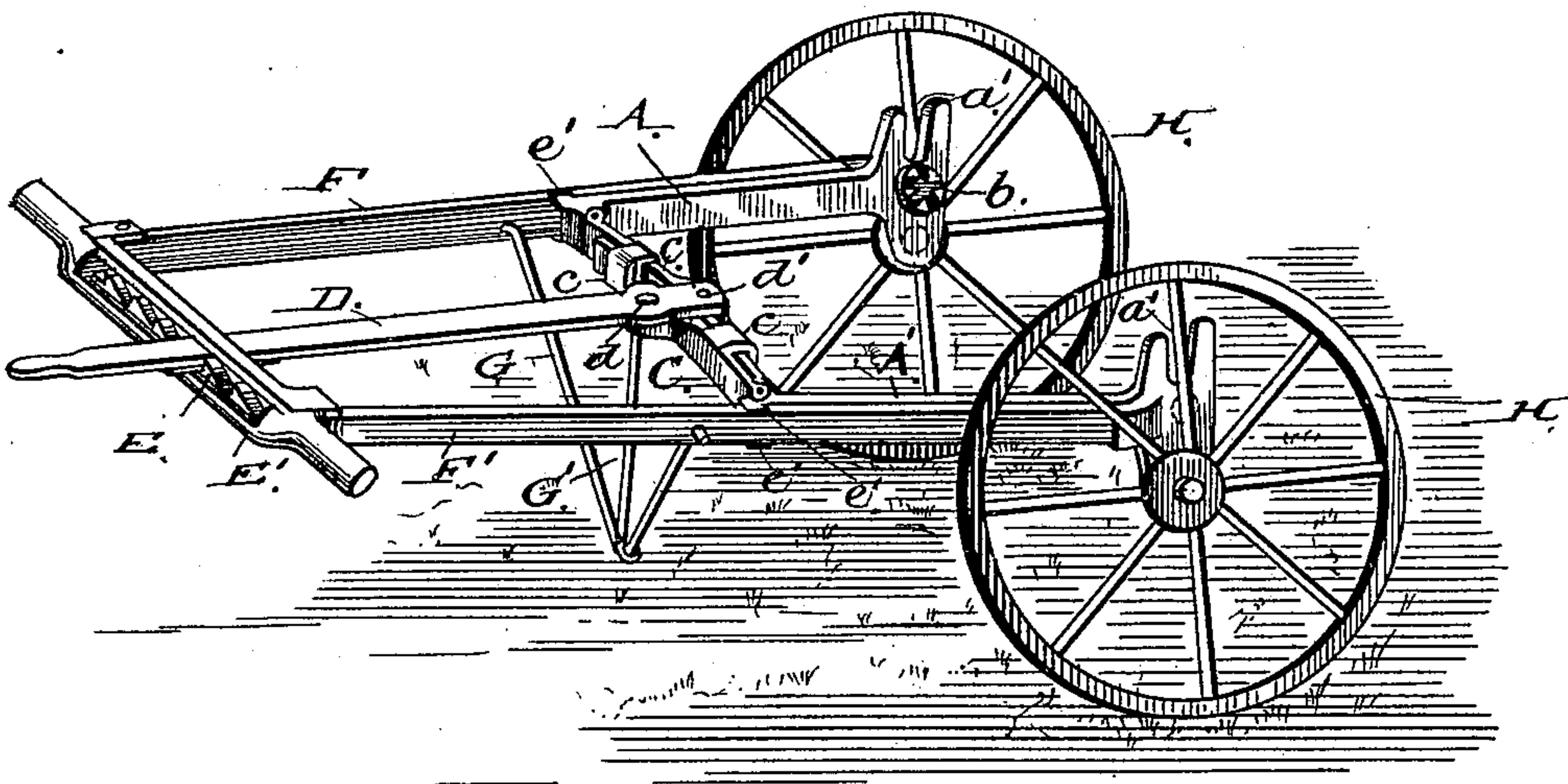


Fig. 2.



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Jacob R. Fitzhugh
per Atty.
A. H. Evans & Co

(No Model.)

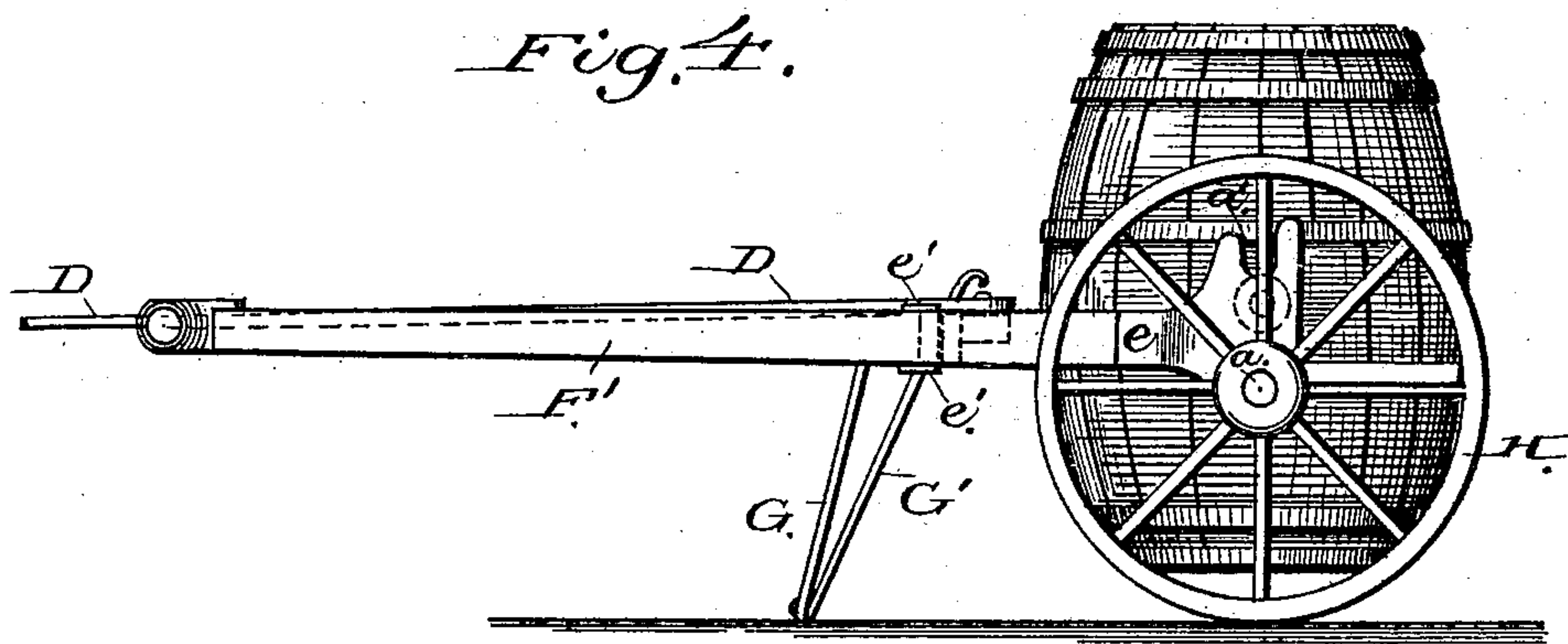
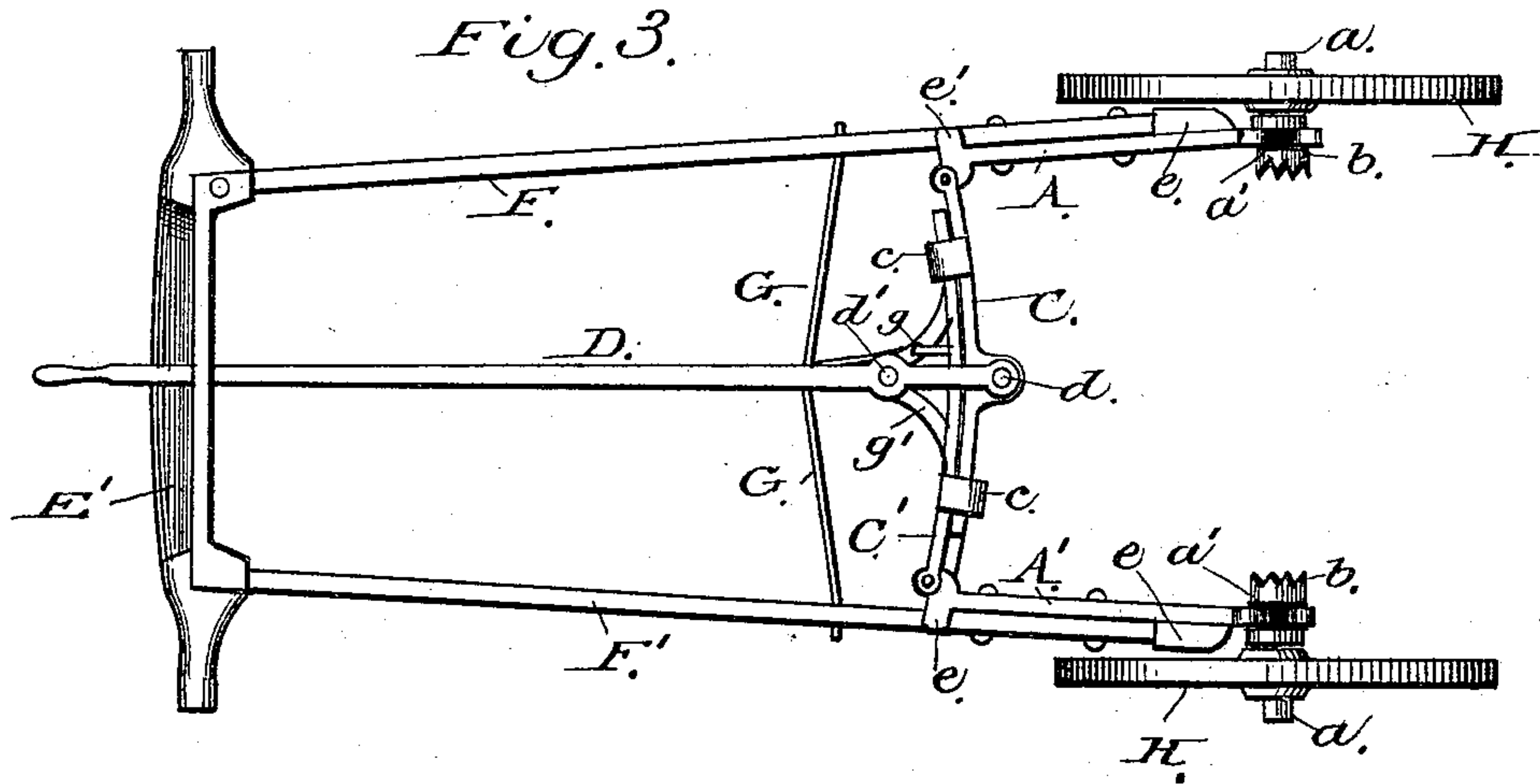
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UNITED STATES PATENT OFFICE.

JACOB R. FITZHUGH, OF UNIONVILLE, NEW JERSEY.

HAND-CART.

SPECIFICATION forming part of Letters Patent No. 342,905, dated June 1, 1886.

Application filed February 6, 1885. Renewed February 24, 1886. Serial No. 193,094. (No model.)

To all whom it may concern:

Be it known that I, JACOB R. FITZHUGH, a citizen of the United States, residing at Unionville, in the county of Gloucester and State of New Jersey, have invented certain new and useful Improvements in Hand-Carts, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a perspective view of a hand-cart with my improvements attached. Fig. 2 is the same with the body removed. Fig. 3 is a plan view of running-gear with wheels removed. Fig. 4 shows how the running-gear may be used for transporting a water-cask.

My invention relates to that class of vehicles known as "hand-carts;" and it consists in the several combinations of devices herein described and claimed.

To enable others skilled in the art to make and use my invention, I will now proceed to describe the exact manner in which I have carried it out.

In the drawings, A A' represent two metal castings of peculiar construction, each one being provided with a short axle, *a*, as shown in Fig. 3. The upper portion of each casting is notched at *a'* to receive the ends of the bar B, which supports the body B' when in position, as shown in Fig. 1.

Immediately beneath the notches *a'*, and on the inside of each casting A A', I secure the burr *b*, provided with projections or teeth to clamp and hold the body, as will be hereinafter explained. The castings are provided with the lapping arms CC', which slide snugly within the loops *c c*, as shown in Fig. 3. The lever-arm D is pivoted to the casting A at *d*; and to a bracket, *g'*, in the casting A' at *d'*; Fig. 3, and on the under side of the free end of the lever is formed a projection or pawl which catches in the rack-bar E, whereby the lever is held in any desired position. The rack-bar is secured on the under side of the slot in the head-block E', to which are attached the forward ends of the side bars, F F', while the rear ends of the said bars are rigidly secured to the castings A A', as shown in Fig. 3. Near the rear and outside of the

castings are formed pockets *e e*, for the reception of the rear ends of the side bars, by which construction the side bars are held securely in position. On the forward end of the castings are formed the fingers *e' e'*, which clasp and hold firmly the side bars, F F'.

From the above description of my device it is evident that as the lever-arm D, turning on its fulcrum-pivots *d d'*, is moved to the right or left will move the casting A A' from or toward each other, thus widening or contracting the space between the burrs *b* for a purpose hereinafter explained.

To the side bars, F F', is secured the bent rod G, extending down to a distance equal to about one-half of the diameter of the wheels H, so as to support the side bars when at rest on nearly a plane level with the axles *a*. From the lower angle formed in this bent rod rises the rod G', which, extending through a perforation, *g*, in the bracket *g'*, terminates in a hook, which fits into a staple, *i*, on the front of the body B', thereby aiding to hold the body in place on the running-gear.

The operation of device is as follows: The lever-arm D being moved to the left of the rack-bar E, the burrs *b* are separated, so as to allow the body of the cart to be placed in position—that is, with the ends of the supporting-bar B resting in the notches *a'*, and the hook on the upper end of the rod G resting in the staple *i* on the front of the body, as shown in Fig. 1. The lever-arm D is then moved toward the right side of the cart until the projections or teeth on the burrs *b* are forced into the sides of the body, when the lever-arm is caught and held by the ratchet-bar E, thus holding the body safely clamped between the burrs. To release and remove the body, it is only necessary to release the lever-arm D and slip the hook from the staple *i* on the front of the body.

It is also evident that my running-gear may be applied to other uses by removing the body of the cart. If it be desired to transport a cask of water, it would only be necessary to back the cart so that the wheels will be on the opposite sides of the cask, then raise the side bars or shafts until the burrs *b* are brought a little below the plane of their normal level,

and press the lever-arm D toward the right side of the slot and drop it on the rack-bar.

Then bring the side bars down to their proper level, and the side bars, acting as levers with
5 the axles as their fulcrums, will raise the cask slightly, and, being thus suspended immediately between the wheels of the cart, the cask is readily transported to any desired spot, where, by simply releasing the lever-arm D, the
10 cask is safely deposited without other handling. Bales and boxes can be readily removed in the same way.

Having thus described my invention, what I claim as new, and desire to secure by Letters
15 Patent, is—

1. The castings A A', provided with the arms C C' and burrs b, in combination with the lever-arm D, side bars, F F', and the wheels

H, all constructed substantially as and for the purpose set forth. 20

2. The castings A A', provided with the arms C C', the burrs b, axles a, in combination with the lever-arm D, provided with a pawl, side bars, F F', rack-bar E, head-block E', and wheels H, all constructed to operate
25 substantially as and for the purpose set forth.

3. The combination, with the supporting-bar E, the castings A A', provided with the axles a, notches a', burrs b, of the side bars, F F', and wheels H, all constructed to operate
30 substantially as and for the purpose set forth.

JACOB R. FITZHUGH.

Witnesses:

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LEWIS STARR.