(Model.)

L. H. GOODWIN.

Wheelbarrow.

No. 236,575. Patented Jan. 11, 1881.

Fig. 1.

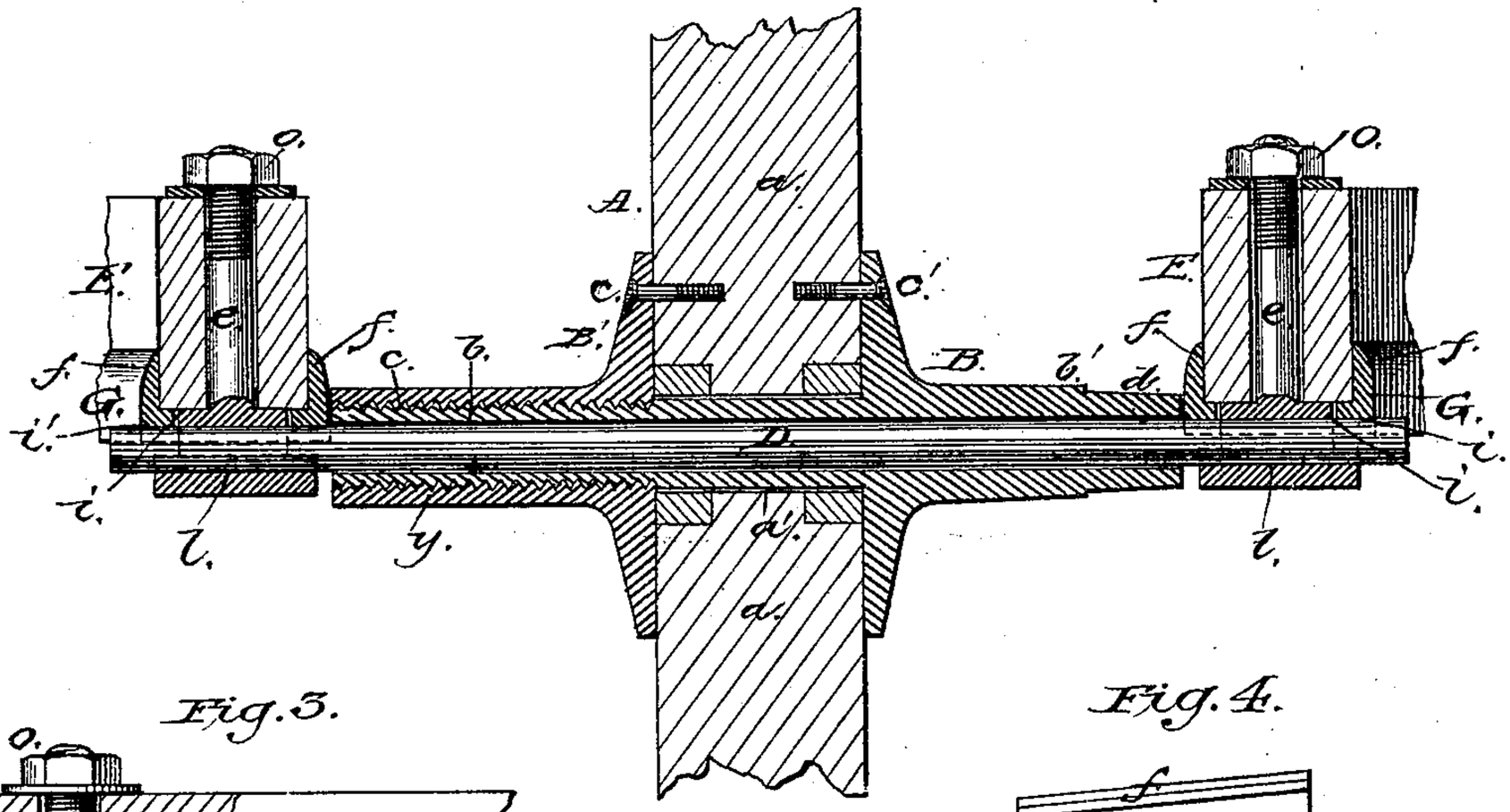


Fig. 3.

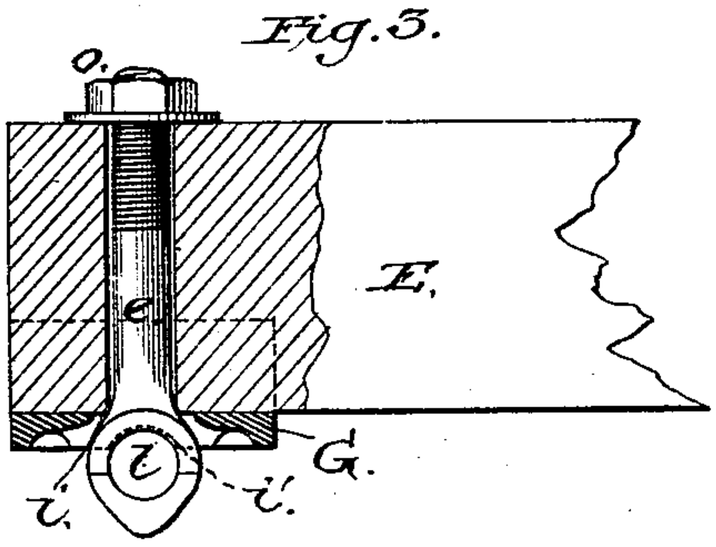


Fig. 2.

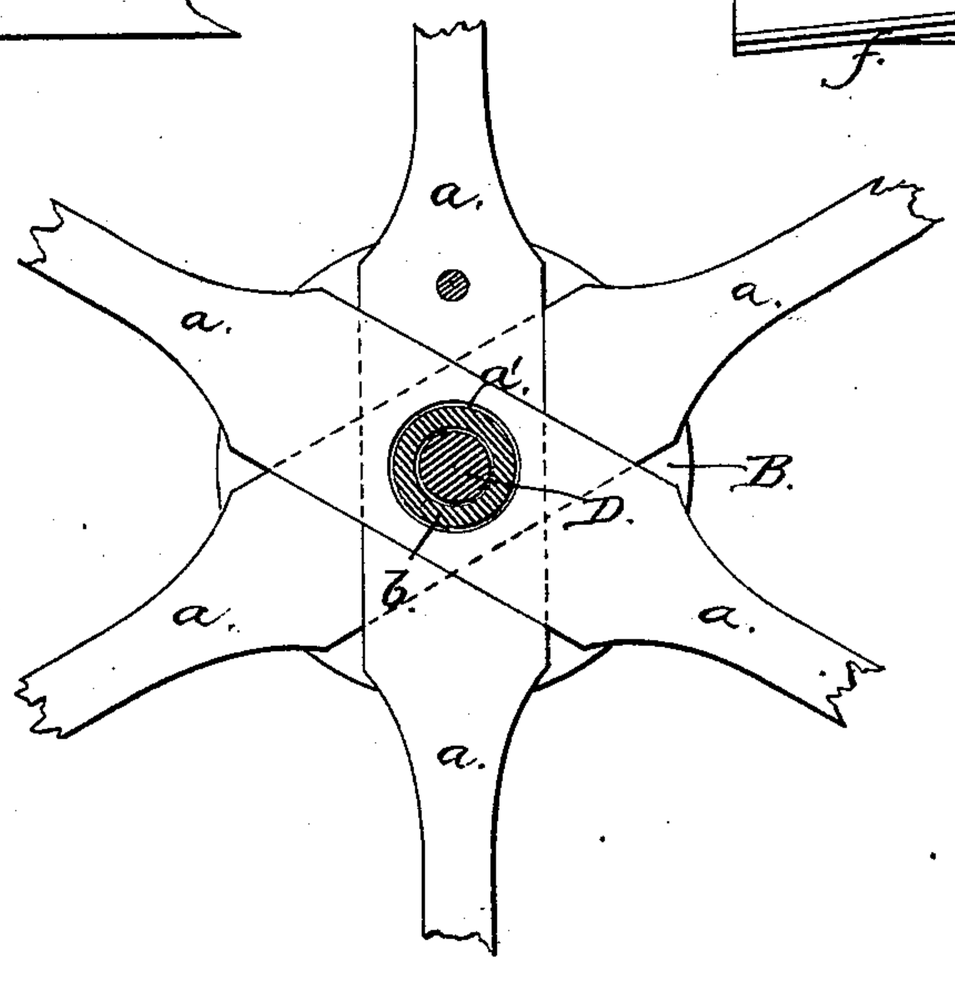
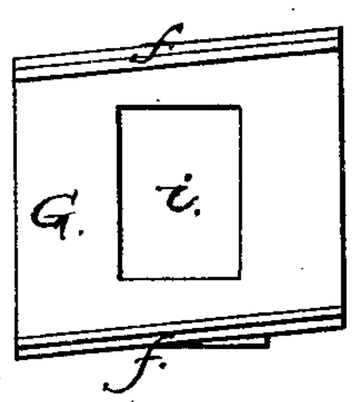


Fig. 4.



WITNESSES:

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UNITED STATES PATENT OFFICE.

LEVI H. GOODWIN, OF CINCINNATI, OHIO.

WHEELBARROW.

SPECIFICATION forming part of Letters Patent No. 236,575, dated January 11, 1881.

Application filed July 24, 1880. (Model.)

To all whom it may concern:

Be it known that I, LEVI H. GOODWIN, of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and valuable Improvement in Wheelbarrows; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a vertical transverse section of the barrow, taken through the wheel; and Figs. 2, 3, and 4 are details.

This invention has relation to improvements in wheelbarrows; and it consists in a barrow constructed substantially as hereinafter set forth.

In the annexed drawings, the letter A designates the wheel of the barrow, the spokes *a* of which are continuous across the diameter of the wheel and framed or gained into each other, so that the lateral edges of the spokes will be in the same plane. There may be four, six, or eight spokes formed out of two, three, or four pieces of wood. The continuous spokes being framed together, as aforesaid, a perforation, *a'*, is made at the central point of intersection.

B designates a cheek-plate, preferably of circular form, having an externally-threaded tubular sleeve, *b*, extending through the perforation *a'*, and an outward tubular extension, *b'*, provided with a wrench-seat, *d*, at its outer end. The threaded portion *c* of the sleeve *b* extends considerably through the framed or gained continuous spokes, and upon this sleeve is applied a second cheek-plate, B', having an internally-threaded sleeve, *y*, engaging that of sleeve *b*. The cheek-plate B' is secured to the framed spokes by means of a screw or screws, *c*, and is therefore immovable; but the cheek-plate may be screwed into it by means of a wrench applied in the usual way to the seat *d*. The spokes being clamped between the cheek-plates B B' with sufficient force, the latter is secured against backward rotation by means of a screw or screws, *c'*. The rim and tire are applied to the spokes in the usual way, and it is deemed unnecessary to describe any mode for so doing herein.

The tubular bearing or sleeve *b* extends completely through the wheel as above constructed, and rotates around a fixed bolt, D, secured to the ends of the handles E. The ends of this bolt extend through eyes *l* on the ends of metallic bolts *e*, extending up vertically through metallic bearing-plates G, applied to the under sides of the handles E aforesaid. These plates are provided with lateral flanges *f*, that embrace the handles E and prevent the same from splitting. The eyes *l* are received in rectangular openings *i* of plates G, and the extremities of the bolt D are received in semicircular recesses *i'* of the plates aforesaid, so that when the bolts *e* are set up by means of the nuts *o*, applied upon their threaded ends above the handles, the ends of the bolt D are clamped against the said plates and are held immovably, thus bracing the handles and strengthening the barrow-frame. It will be observed that the plates G have no other fastening than the bolts *e* aforesaid, which require but a single perforation in the ends of the handles, by which arrangement the said handles are prevented from being unduly weakened. It will be also seen that the flanges *f* prevent the handles from splitting when the barrow is tipped in dumping its load.

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

A wheelbarrow consisting of the spokes *a*, framed into each other, the cheek-plate B, having the tubular externally-threaded sleeve *b*, and outwardly tubular extension *b'*, provided with a wrench-seat, *d*, the cheek-plate B', having the internally-threaded sleeve *y* passed onto said sleeve *b* and rigidly secured to the spoke or spokes, and the handles E, provided with the bearing-plates G, the fixed rod D, engaging said plates, the bolts *e*, having eyes *l*, and the clamp-nuts *o*, applied on said bolts, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

LEVI H. GOODWIN.

Witnesses:
R. S. COLLINS,
JAS. S. ANDERSON.