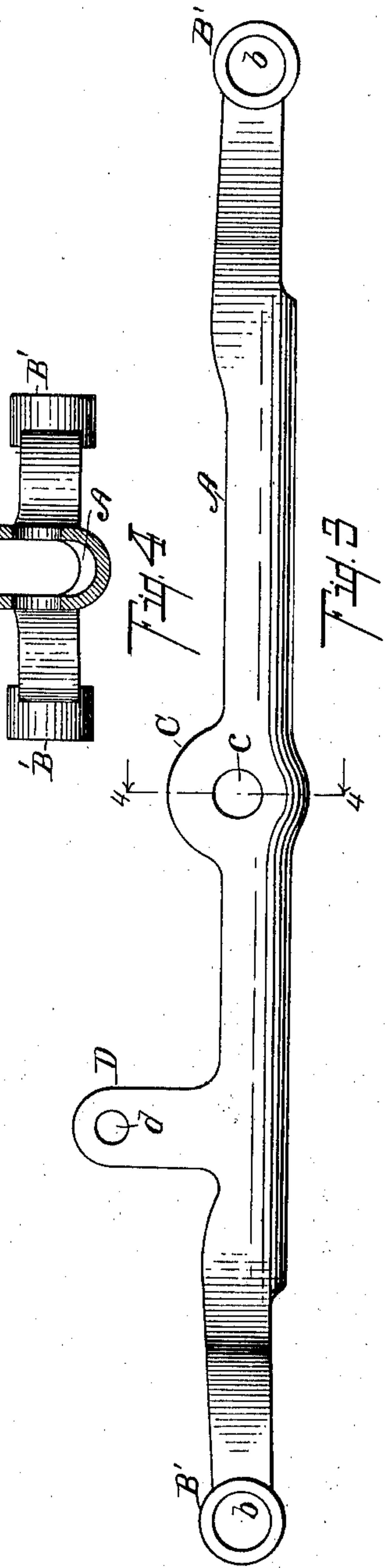
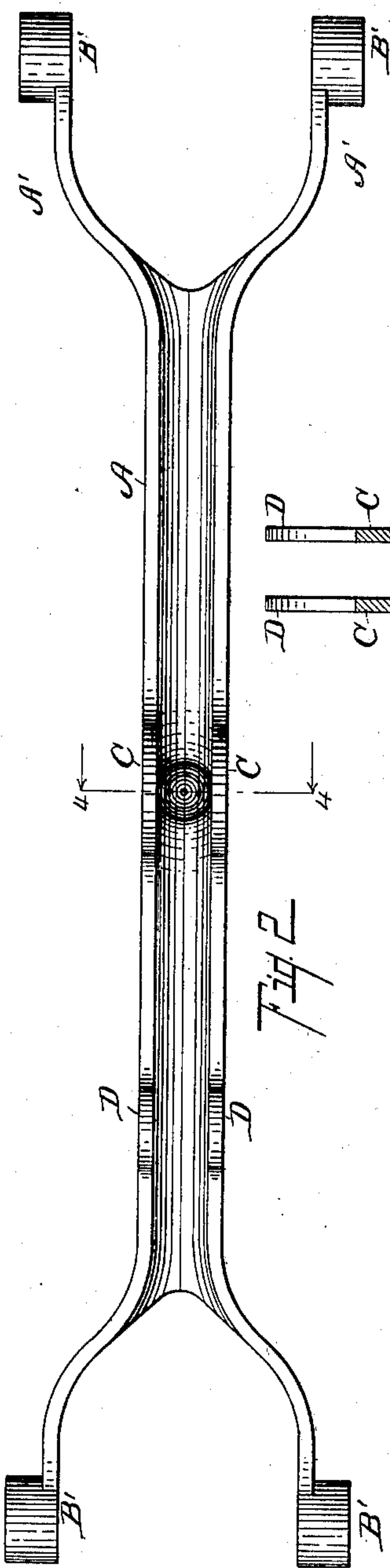
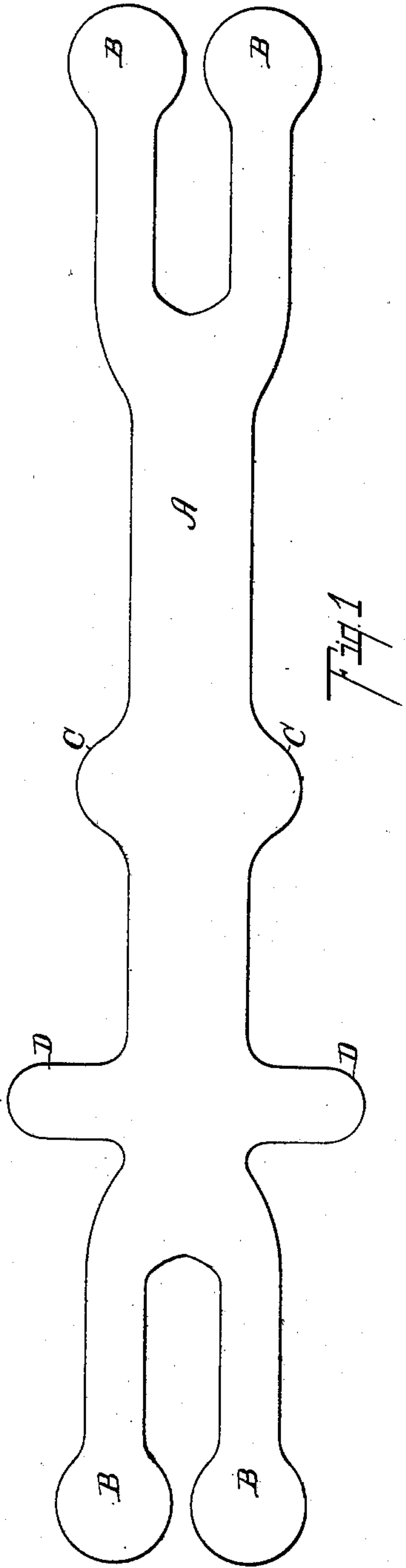


No. 737,604.

PATENTED SEPT. 1, 1903.

P. J. GARRISON.  
WALKING BEAM FOR HAND CARS.  
APPLICATION FILED FEB. 19, 1903.

NO MODEL.



Witnesses:

*Otis A. Earl*  
*Ethel A. Teller*

Inventor,

*Perry J. Garrison*  
By *Frederick H. Chappell*  
Att'y.



# UNITED STATES PATENT OFFICE.

PERRY J. GARRISON, OF THREE RIVERS, MICHIGAN.

## WALKING-BEAM FOR HAND-CARS.

SPECIFICATION forming part of Letters Patent No. 737,604, dated September 1, 1903.

Application filed February 19, 1903. Serial No. 144,089. (No model.)

*To all whom it may concern:*

Be it known that I, PERRY J. GARRISON, a citizen of the United States, residing at the city of Three Rivers, in the county of St. Joseph and State of Michigan, have invented certain new and useful Improvements in Walking-Beams for Hand-Cars, of which the following is a specification.

This invention relates to improvements in walking-beams for hand-cars and in the method of manufacturing the same.

The objects of the invention are, first, to produce a very strong and efficient hand-car walking-beam at a minimum expense, both as to labor and material; second, to provide an improved construction of hand-bar walking-beams which can be readily formed from a blank of sheet metal into one continuous piece, thereby avoiding the numerous objectionable welds which appear in hand-car walking-beams as now generally constructed.

Further objects will definitely appear from the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification. The invention is clearly defined and pointed out in the claims.

A structure embodying the features of my invention is fully illustrated in the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a detail view of the blank of sheet metal from which the hand-car lever or walking-beam is produced. Fig. 2 is an inverted plan view of the completed lever or walking-beam, showing the formation of the various parts. Fig. 3 is a side elevation view of the structure appearing in Fig. 2, bottom side up. Fig. 4 is a detail sectional view taken on a line corresponding to lines 4-4 of Figs. 2 and 3, showing the formation of the central portion of the lever.

Referring to the lettered parts of the drawings, the body portion A is divided into arms A' A', forming a fork at each end. The main body of the lever is formed by folding its sides upon itself, whereby the ears C C will extend down and be perforated at c to attach to the pivot on the standard of the hand-car. Longer ears D D toward one end also fold down parallel, as appears in Figs. 2, 3, and 4, and are perforated at d, forming the pitman connection to the walking-beam for the actuation of the hand-car running-gear.

Blanks B B at each end are struck up into eyes B' B' before the body part of the lever is folded, and these arms are bent outwardly to give a support for the cross-bar or handle at each end, thereby affording efficient support for the handle, the holes b being formed through the same for that purpose.

By this method it will be noted a walking-beam for a hand-car is formed in which there are broad flanged eyes B' B' at each end and that the lever is formed in as strong a manner as possible by the sheet metal being folded upon itself, thereby giving an extraordinary strength to the same, owing to this fold of the body of the lever through the middle portion.

The lever or walking-beam thus formed is very efficient and finished in its appearance as well, and it is obvious that the material is disposed of in the best possible manner to resist the strains that come upon it.

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

1. A walking-beam or lever for a hand-car, formed of a sheet of metal which is forked at each end, with eyes struck outwardly in the ends of the forks, and the central portion folded upon itself, and being provided with downwardly-projecting ears suitably perforated for attachment to the standard of a hand-car and to connect the pitman-rod, for the purpose specified.

2. A walking-beam or lever for a hand-car formed of a sheet of metal which is forked at each end, with its central portion folded upon itself, the arms being suitably perforated to receive the cross-bar, and the folded part being perforated for connections to the standard and pitman, for the purpose specified.

3. A walking-beam or lever for a hand-car, formed of a single piece of sheet metal, folded upon itself at the central portion and forked at each end to receive the cross-bars, for the purpose specified.

In witness whereof I have hereunto set my hand and seal in the presence of two witnesses.

PERRY J. GARRISON. [L. S.]

Witnesses:

S. M. CONSTANTINE,  
L. F. CONSTANTINE.