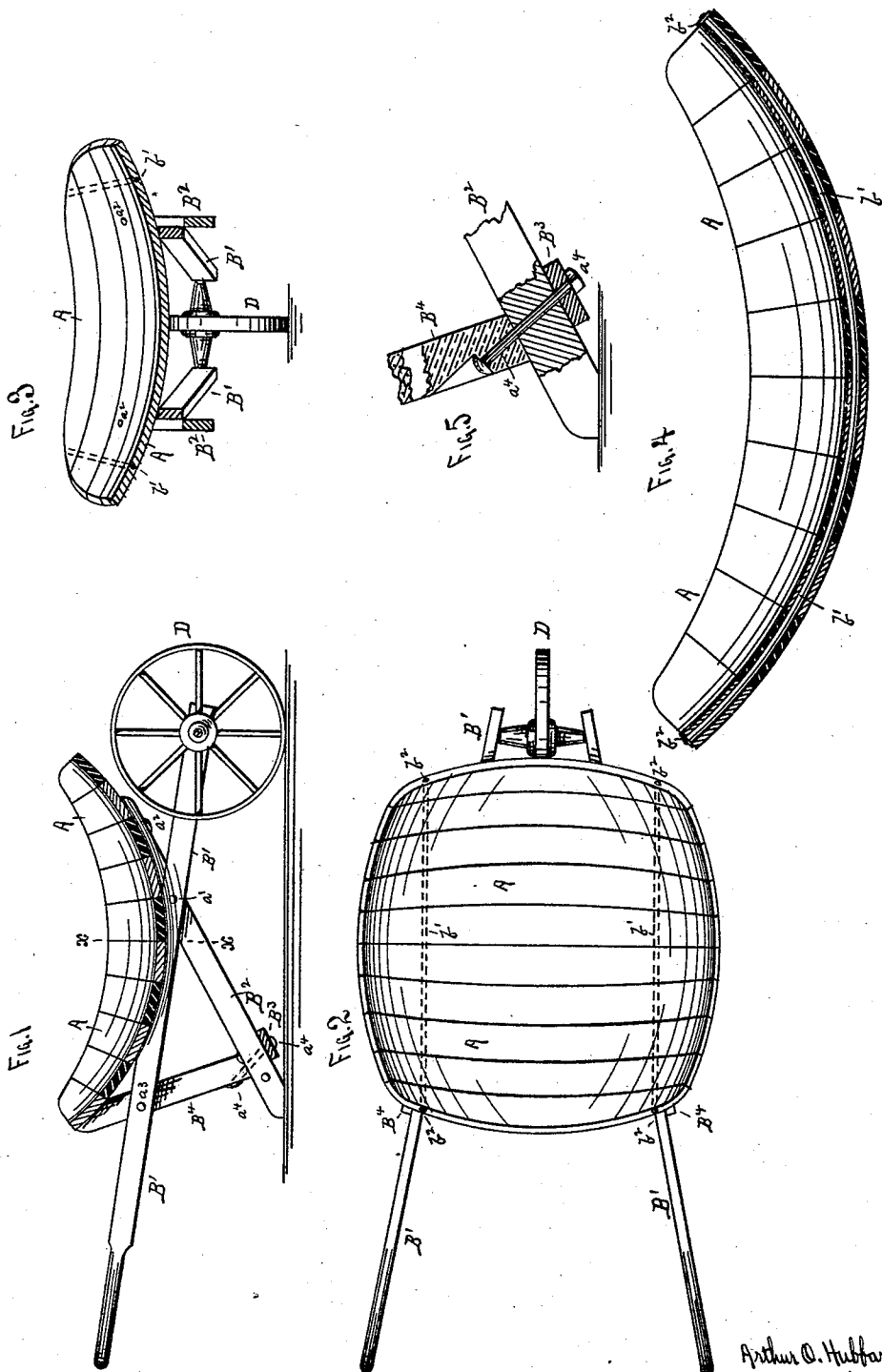


(No Model.)

A. O. HUBBARD.
WHEELBARROW.

No. 487,053.

Patented Nov. 29, 1892.



V. T. Gardiner
Frederick Pickles WITNESSES.

Arthur O. Hubbard
INVENTOR, BY
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UNITED STATES PATENT OFFICE.

ARTHUR O. HUBBARD, OF ROBBINSDALE, ASSIGNOR TO WILLIAM R. SWEATT,
OF MINNEAPOLIS, MINNESOTA.

WHEELBARROW.

SPECIFICATION forming part of Letters Patent No. 487,053, dated November 29, 1892.

Application filed April 29, 1892. Serial No. 431,111. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR O. HUBBARD, a citizen of the United States, residing at Robbinsdale, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Wheelbarrows, of which the following is a specification.

This invention relates to wheelbarrows; and it consists in the manner of constructing the "tray" or body portion of the vehicle, as hereinafter shown and described, and specifically pointed out in the claims.

In the drawings, Figure 1 is a sectional side elevation, and Fig. 2 is a plan view, of a wheelbarrow embodying my invention. Fig. 3 is a cross-sectional view on the line X X of Fig. 1. Fig. 4 is an enlarged sectional view of the tray, illustrating the manner of securing the sections together. Fig. 5 is an enlarged sectional detail of a portion of the barrow-frame, illustrating the manner of connecting the parts together.

This invention consists in forming the tray or body portion of a wheelbarrow of a series of narrow curved stave-like strips A, so formed that when their edges are brought together and the united sections bent in curved lines and secured firmly together the whole will assume a dish-like shape of the proper form.

In the drawings in Figs. 1, 2, and 4 the sections A are shown connected by tie-rods b' , passing through them and secured by rivets or nuts b^2 in the outer sections. The sections may also be secured by metal bands across the ends of the sections or in any other suitable manner, as I do not wish to be confined to any specific method of securing the sections together. This method of construction forms a very simple, compact, and durable tray, which may be readily constructed from small narrow strips, thus combining strength with cheapness. It also insures a very strong construction of a tray, which will resist the heavy strains or rough usage to which such vehicles are subjected. The sections can be so formed as to give almost any required shape to the tray; but the form shown is the preferable one.

The frame for supporting the tray and to which the wheel D is journaled consists of

the main side bars B' with the legs B^2 crossing them at a backwardly and downwardly trending angle and bolted thereto at their crossing points, as shown at a' . The upper ends of the legs project above the side bars and are bolted beneath the forward portion of the tray, as at a^2 , while the lower ends are connected by a cross-bar B^3 . Two braces B^4 are bolted at a^3 to the side bars and with their upper ends projecting above the side bars and supporting the rear portion of the tray, as shown, while their lower ends rest upon the upper inclined surface of the legs B^2 , opposite to the cross-bar B^3 , so that one bolt a^4 may be utilized to connect the three parts B^4 , B^2 , and B^3 together at their meeting points. This is an important feature of my invention, as it not only greatly simplifies the construction, but renders the frame more substantial and less liable to disarrangement. It also reduces the number of bolt-holes required through the parts, and thereby lessens the chances for breakage.

Having thus described my invention, what I claim as new is—

1. As a new article of manufacture, a wheelbarrow-tray formed of narrow strips with curved contiguous edges, whereby the proper dishing form is secured when said sections are bent and united, substantially as and for the purpose set forth.

2. In a wheelbarrow, the side bars B' , supporting the tray and between which the wheel D is journaled, the legs B^2 , inclining backward and downward and secured to said side bars, cross-bar B^3 beneath the lower portion of said legs, and front braces B^4 , secured to said side bars and with their lower ends resting upon said inclined legs opposite said cross-bars, whereby one bolt a^4 may be utilized to secure the legs, bars, and braces together, substantially as and for the purpose set forth.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

ARTHUR O. HUBBARD.

Witnesses:

C. N. WOODWARD,
H. S. WEBSTER.