

No. 756,262.

PATENTED APR. 5, 1904.

T. J. MONTGOMERY.
WHEELBARROW.

APPLICATION FILED MAR. 12, 1903.

NO MODEL.

Fig. 1.

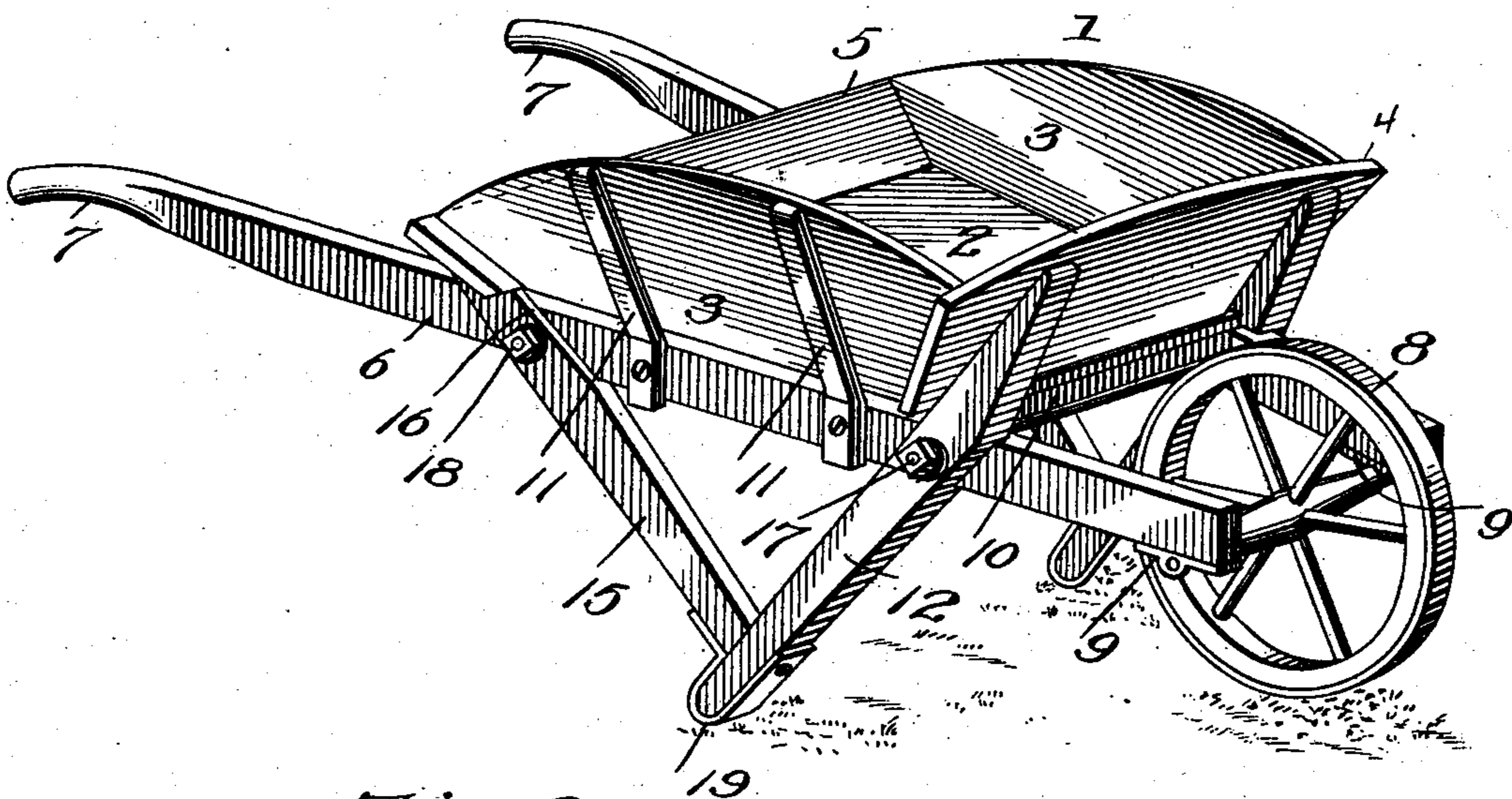


Fig. 2.

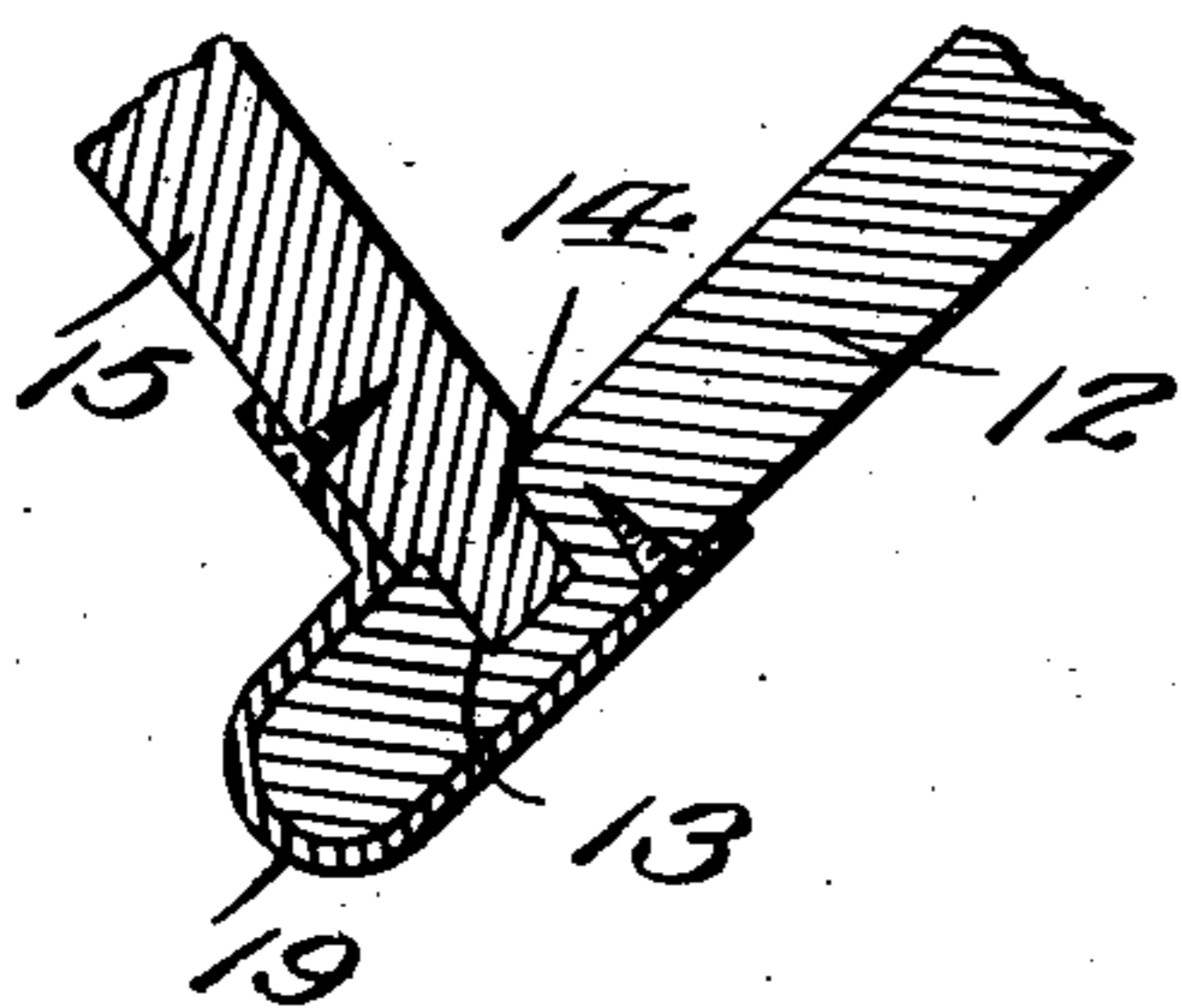
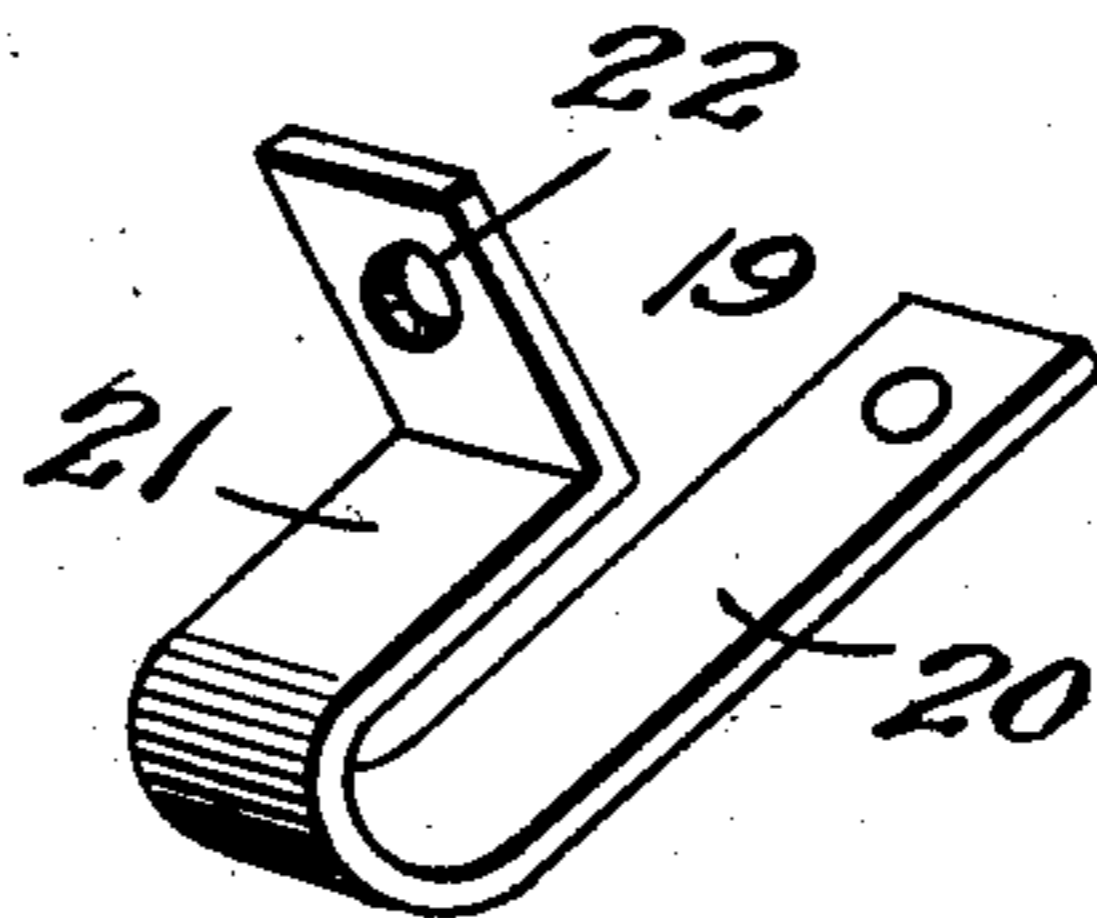


Fig. 3.



Witnesses

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WHEELBARROW.

SPECIFICATION forming part of Letters Patent No. 756,262, dated April 5, 1904.

Application filed March 12, 1903. Serial No. 147,484. (No model.)

To all whom it may concern:

Be it known that I, THOMAS J. MONTGOMERY, a citizen of the United States, residing at Youngstown, in the county of Mahoning and State of Ohio, have invented new and useful Improvements in Wheelbarrows, of which the following is a specification.

This invention relates to wheelbarrows, and particularly to the manner of constructing and putting the same together to produce a strong and durable device of this class and wherein the parts are so assembled that they will resist springing or separation and unitedly receive the weight strain and have a coöperative bracing action.

The invention consists in the construction and arrangement of the several parts, which will be more fully hereinafter described and claimed.

In the drawings, Figure 1 is a perspective view of a wheelbarrow embodying the features of the invention. Fig. 2 is a longitudinal vertical section through the lower united extremities of one of the leg elements. Fig. 3 is a detail perspective view of one of the strap-braces for the lower terminals of the leg elements.

Similar numerals of reference are employed to indicate corresponding parts in the several views.

The numeral 1 designates a barrow-body comprising a bottom board 2, opposite outwardly-flaring sides 3, a forwardly-inclined front end 4, and a rear end 5, disposed at an angle of inclination. The body 1 is firmly held on combined handle and wheel bars 6, provided with rear grips 7 and converged toward their front extremities for disposition therebetween of the usual form of wheel 8, having the ends bearing in suitable boxes 9, secured against the under edges of the front terminals of the said combined handle and wheel bars. The bottom 2 rests on suitable cross-bars 10, terminally secured to the inner opposing sides of the combined handle and wheel bars 6, only one of the said cross-bars 10 being visible in Fig. 1. Rising from the combined handle and wheel bars are pairs of outwardly-inclined braces 11, which closely

engage the outer surface of the sides 3 and are suitably secured to the latter to prevent the said sides from being forced outwardly by the weight-pressure instituted by the load in the body of the barrow.

The leg elements comprise depending forwardly-inclined legs 12, having the inner sides of the upper portions thereof suitably mortised to receive and form seats for the forward extremities of the combined handle and wheel bars, the said legs projecting above the upper edges of the latter bars and having their rear edges in close engagement with the front surface of the front end 4 of the body 1. The rear edges of the legs 12 a short distance above their lower ends have sockets 13 formed therein, as clearly shown by Fig. 2, to receive tenons 14 on the lower ends of leg-braces 15, intersecting the legs 12 in substantially right-angular planes and extended forwardly and rearwardly at angles of inclination and secured to the combined handle and wheel bars, the inner upper portions of the leg-braces 15 having mortises 16 on their inner sides to receive said bars. The upper ends of the leg-braces 15 are projected above the upper edges of the combined handle and wheel bars and are secured against the rear side of the rear end 5 of the body 1. At the points in the legs 12 and leg-braces 15 where the mortises are formed to receive the combined handle and wheel bars tie-rods 17 and 18 are passed through both legs and leg-braces and said bars to prevent the latter from spreading.

From the foregoing it will be seen that an exceptionally strong body is formed, and the latter is increased in strength by the particular manner of mounting the same in relation to the combined handle and wheel bars and the leg elements.

By arranging the leg-braces 15 as set forth the leg elements will be caused to receive the weight strain from opposite extremities of the body, and, furthermore, by extending the legs 12 upwardly to engage the front end of the body and projecting the leg-braces above the combined handle and wheel bars to serve as supports for the rear end of the body a superior barrow structure results from a stand-

point of strength. The lower extremities of the legs in the ordinary construction of wheelbarrows soon become worn or broken, and to render the improved wheelbarrow more durable in this particular location metallic
5 brace-straps 19 are employed and are of approximately U-shaped form, having one straight member 20, which is secured against the front edge of the lower extremity of each
10 leg 12, and a shorter straight member 21, parallel with the member 20, to bear against the rear end of each leg below the under edge of the leg-brace 15, and extending from the shorter member 21 is an angular member 22,
15 which is secured against the under edge of the leg-brace close to the rear edge of the leg, as clearly shown by Figs. 1 and 2. The angular member 22 also relieves a material portion of the breaking strain from the leg-brace, and in
20 applying the brace-straps 19 they are slipped over the lower ends of legs 12 until the angular member 22 thereof bears firmly against the adjacent under edges of the leg-braces 15, and when so disposed fastenings are inserted

through openings in the terminals of the long 25 members 20 and in the angular member 22.

Charges in the form, proportions, and minor details may be resorted to without departing from the spirit of the invention.

Having thus fully described the invention, 30 what is claimed as new is—

In a wheelbarrow, the combination with a body and handle and wheel bars with a wheel mounted between the front ends thereof, of leg elements depending from the said body and 35 bars and comprising depending rearwardly-inclined legs and forwardly and downwardly inclined leg-braces, said legs and braces having mortises in the inner sides thereof, in which the said bars fit, and tie-rods extending across 40 under the body and through the legs and braces and the bars.

In testimony whereof I affix my signature in presence of two witnesses.

THOMAS J. MONTGOMERY.

Witnesses:

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