

(No Model.)

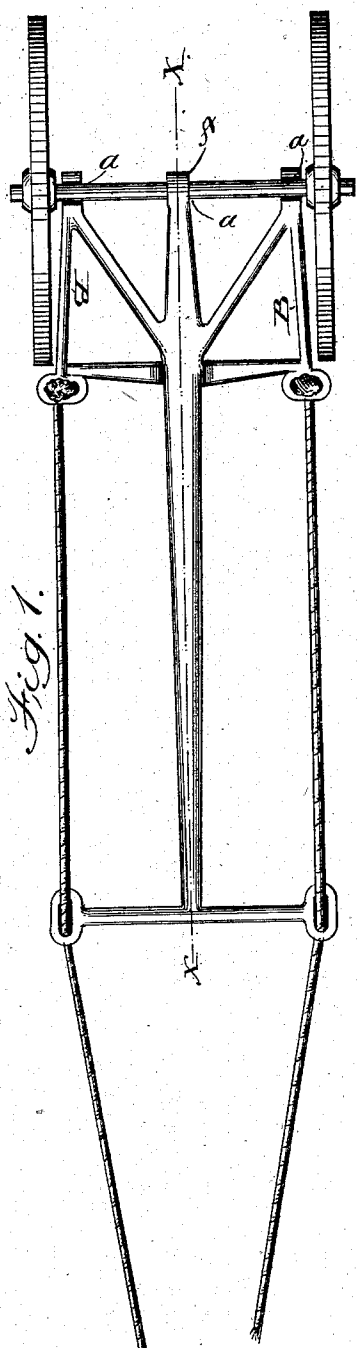
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G. S. CROSBY.

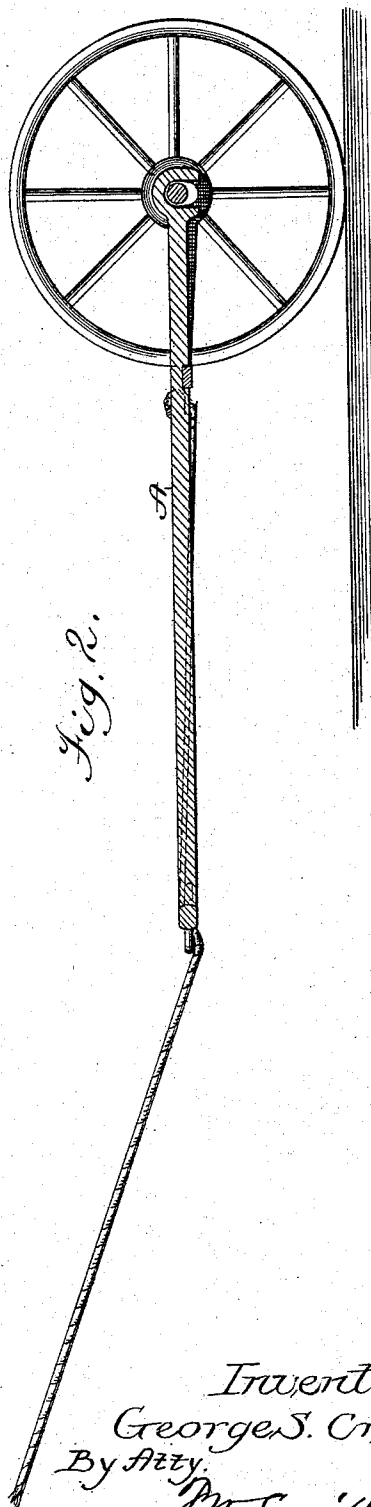
TOY VEHICLE.

No. 276,227.

Patented Apr. 24, 1883.



Attest;
Shafter Fowler.
F. L. Brown



Inventor ;
George S. Crosby
By Atty.
O. M. Smith.

(No Model.)

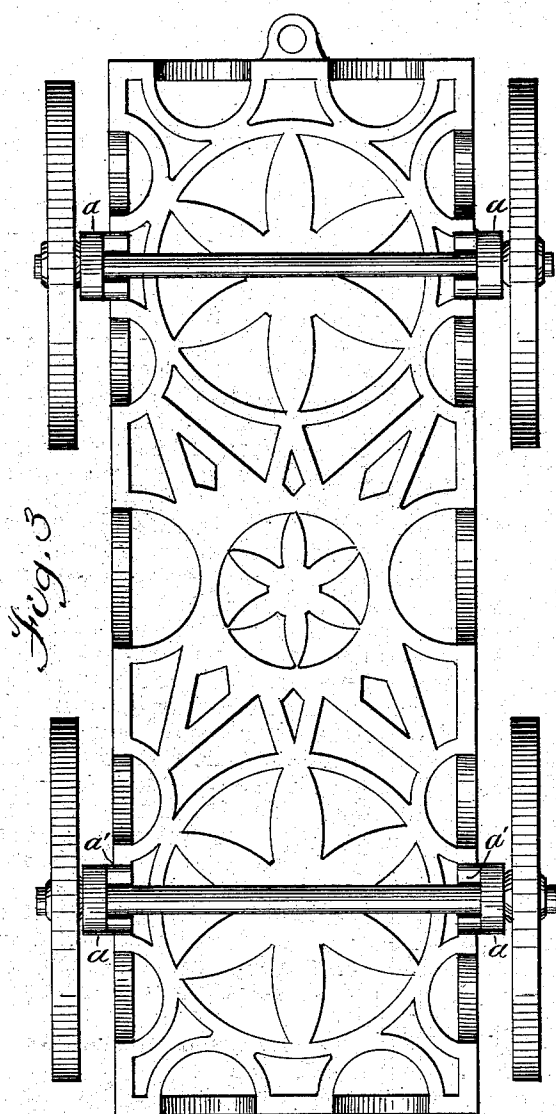
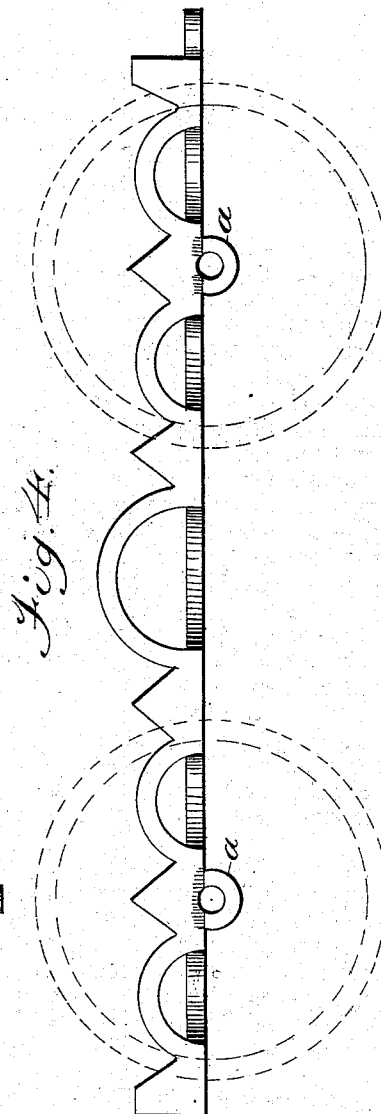
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G. S. CROSBY.

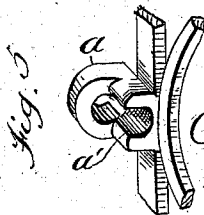
TOY VEHICLE.

No. 276,227.

Patented Apr. 24, 1883.



Attest;
Chaater Fowler,
F. L. Bunnell



Inventor;
George S. Crosby
By Atty.
J. M. Smith

UNITED STATES PATENT OFFICE.

GEORGE S. CROSBY, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR OF ONE-HALF TO JAMES WATSON, JR., OF SAME PLACE.

TOY VEHICLE.

SPECIFICATION forming part of Letters Patent No. 276,227, dated April 24, 1883.

Application filed September 14, 1882. (No model.)

To all whom it may concern:

Be it known that I, GEORGE S. CROSBY, a citizen of the United States, residing at Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Toy Vehicles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to certain new and useful improvements in the casting of bearings for axles in toy vehicles, and has for its object simplicity of construction and adaptation; and with these ends in view my invention consists in the details of construction and combination of elements hereinafter fully described and then specifically designated by the claims.

In order that those skilled in the art to which my invention appertains may know how to make the same, I will proceed to describe its construction and operation, referring by letters to the accompanying drawings, in which—

Figure 1 is a top view, illustrating my improvement as cast on an ordinary tongue-piece and adapted to the axle of a toy vehicle; Fig. 2, a section through the line *xx* of Fig. 1; Fig. 3, a bottom view of a toy vehicle with my improved axle-bearings cast thereon at the sides; Fig. 4, a side view in elevation of the same, and Fig. 5 a detail view of my improved bearing.

Similar letters denote like parts in the several figures.

In applying my device on a tongue-piece, as seen at Figs. 1 and 2, I preferably trifurcate the rear end of the tongue proper, each extremity of said forked portions having cast thereon an open lug-bearing, *a*, that of the central fork, *A*, being so constructed as to form a bearing-surface in a direction opposite to that on the side forks, *B*, so that if the vehicle is inverted or the tongue swung around on the opposite side the axle will have a bearing at the central or side forks, as the case may be. When cast upon the sides of a toy vehicle the lug-bearing *a* projects below the bottom of the vehicle in order to keep the axle from contact with the under surface of the

body, and it also projects or juts out laterally, thereby acting as a washer to prevent the wheels from coming in contact with the sides of the toy. It will also be seen by reference to Fig. 5 that this lug-bearing *a* projects or juts out in the form of a step open opposite to the bearing-surface, which is a very important feature, owing to the fact that it simplifies greatly the operation of casting, in that the said bearing is open and not closed, which is a great advantage in coring a casting.

Heretofore lugs have been cast on the sides of vehicles and holes bored through said lugs to form bearings for the axle, and great difficulty has been experienced in casting bearings in an ordinary mold, such as is used for cheap toys, which shall be uniform and suitable for the purpose; but I have overcome this difficulty by casting said bearings open opposite to the bearing-surface proper, as described.

It will be readily understood that when used on a tongue, as shown at Fig. 1, the bearing is precisely the same in its functions as when cast on the body of the vehicle, since the part *a'* (see Figs. 4 and 5) in the latter correspond to the central fork, *A*, in the former.

I am aware that lugs have been cast on the sides of toy vehicles and holes bored therein to form axle-bearings, and I do not wish to be understood as laying claim to any such construction; but

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

1. In a toy vehicle, the lug-bearing *a*, projecting below the body and beyond the sides, as described, and open opposite to the bearing-surface, substantially as and for the purpose set forth.

2. In a toy vehicle, the tongue-piece trifurcated, as described, the bearing-surfaces of the two side forks, *B*, being in a direction opposite to the bearing-surface of the central fork, *A*, substantially as set forth.

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

GEORGE S. CROSBY.

Witnesses:

WILLIAM F. BARNES,
WALTER GODDARD.