

Benj. Hurlburt's

Imp^{ts} In Carriage Backs.

116449

PATENTED JUN 27 1871

Fig. 1.

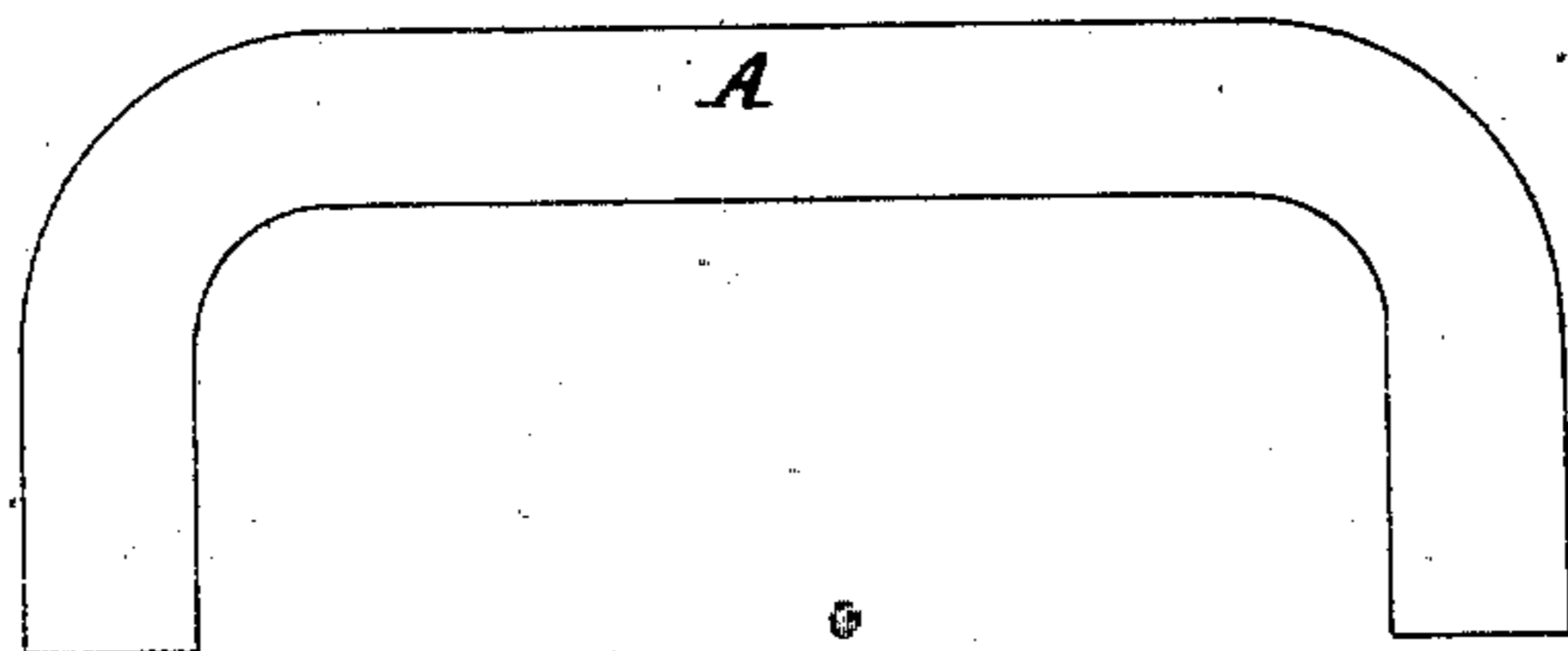


Fig 2

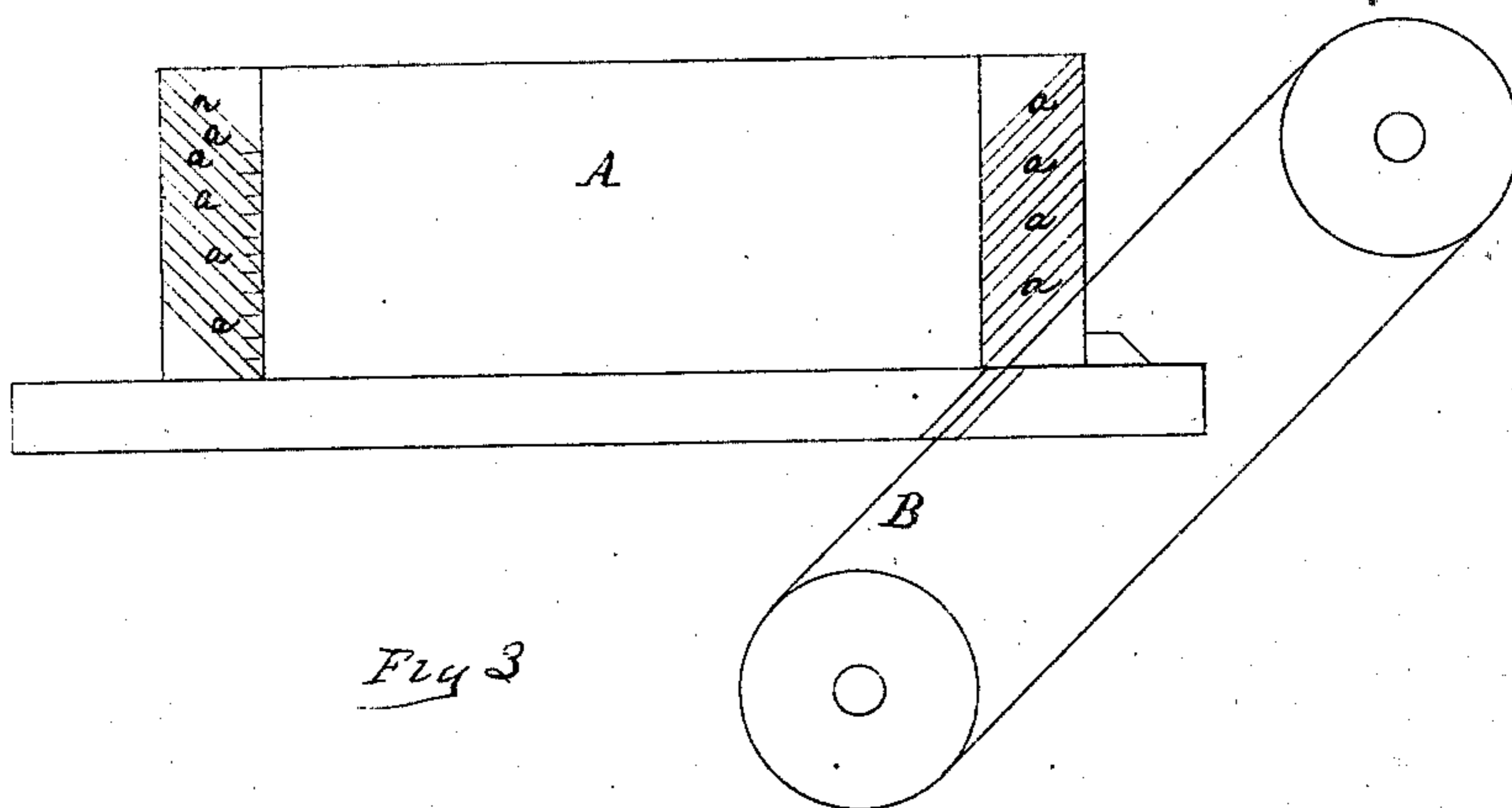


Fig 3

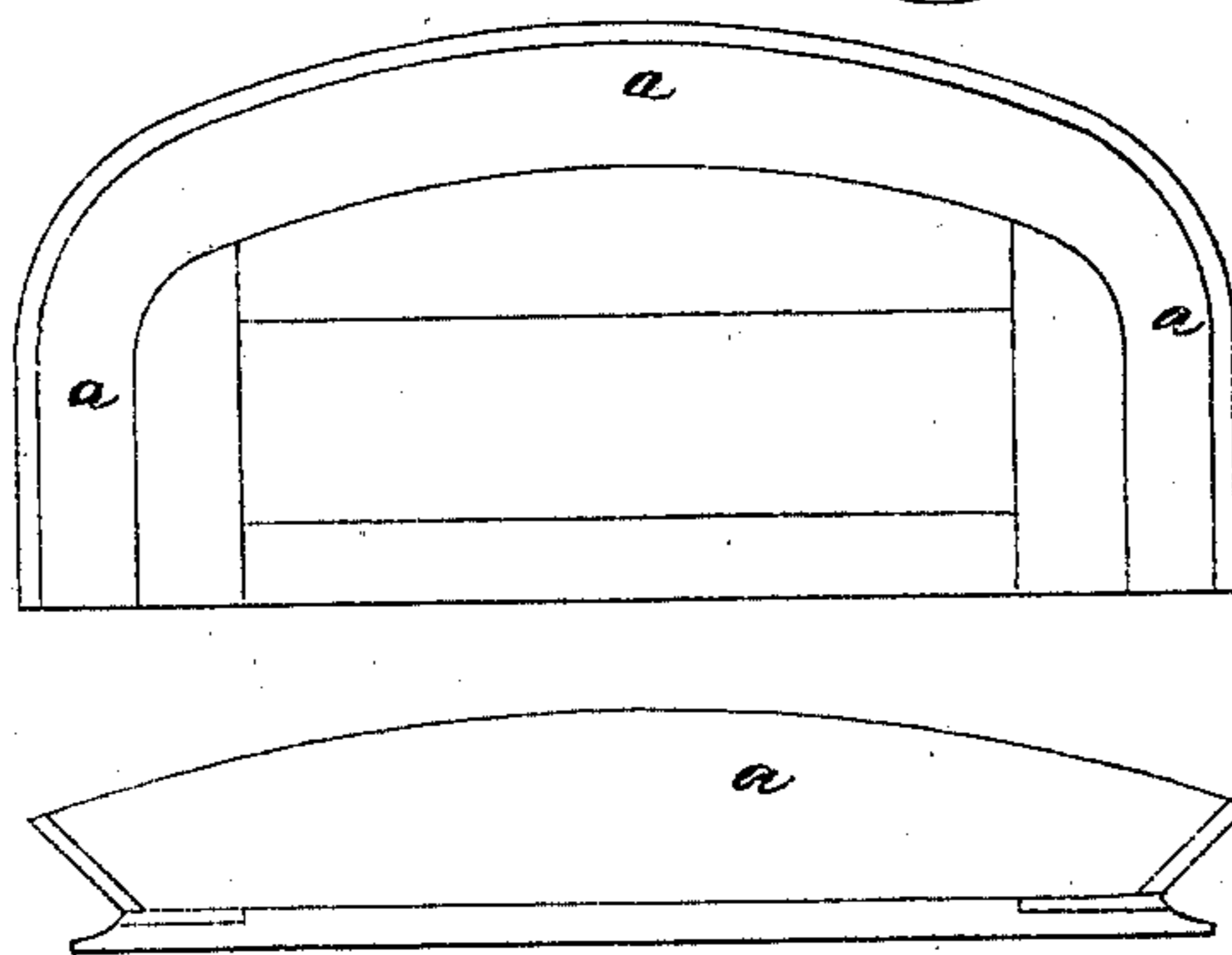


Fig 4

attests
H. F. Millson,
Geo. D. Craue

Benjamin Hurlburt
Inventor

UNITED STATES PATENT OFFICE.

BENJAMIN HURLBURT, OF FORT WAYNE, INDIANA, ASSIGNOR TO HIMSELF AND NOBLE G. OLDS, OF SAME PLACE.

IMPROVEMENT IN THE MANUFACTURE OF BACKS FOR CARRIAGE-SEATS.

Specification forming part of Letters Patent No. 116,449, dated June 27, 1871.

To all whom it may concern:

Be it known that I, BENJAMIN HURLBURT, of Fort Wayne, in the county of Allen and State of Indiana, have invented certain new and useful Improvements in the Manufacture of Backs for Carriage-Seats; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon, in which like letters refer to like parts in the different figures.

Figure 1 represents a plan view of the block from which the backs are cut after being bent to the desired form. Fig. 2 represents a side elevation of the same while in the process of cutting. Fig. 3 represents a plan view of the seat after being completed. Fig. 4 represents an elevation of the same.

The nature of my invention consists in a new and improved method of constructing the back of carriage-seats and securing them to the beds of the same. My improvements relate particularly to the method employed in preparing said "backs" for use as an article of manufacture.

To enable others skilled in the arts to make and use my invention, I will proceed to describe its construction and the manner of applying it.

A, Fig. 1, represents a block of timber of a suitable length, breadth, and thickness, the sides of which are made plain and are parallel. This block is first bent by the ordinary means, in any form desired, as seen in said Fig. 1, after which it is cut into a series of parallel diagonal sections, *a*, by means of a band or jig saw, B, the line of which stands at any suitable angle to the plane of the table upon which the operation is performed, as seen in Fig. 2. Each section which is thus cut from the block forms, when secured to the bed or base of the seat, as seen in Figs. 3 and 4, a light, strong, and durable back, having no joints or other weak points incident to timber which is cut across its grain. After said sections are cut from the main block they may be finished up by curving their upper edges to suit the taste of the manufacturer, while their lower edges are made plane, as seen in Fig. 4, so as to fit snugly onto the upper surface of the base of the seat.

It will be observed that backs cut in this manner form a solid curved block, as described, and will have the necessary curve to form the back and ends of the seat, while, at the same time, any desired pitch of plane may be obtained.

I do not claim as my invention any particular curve for the back or ends of the seat; neither do I confine myself to any particular angle or pitch at which the backs are set in relation to the plane of the base; neither do I claim setting continuous curved backs on carriage-seats, as such backs are now in common use; but those in use are either cut from solid timber, and those portions of the back which form the ends of the seat are cut across the grain, and are, therefore, easily broken, while those put together in joints are, owing to frequent severe strains, liable to, and almost invariably do, open at the joints, and thus render the seat of little or no value.

I have described what I consider to be the best and most practicable mode of carrying my invention into effect; but it is manifest that modifications may be made in the same without departure from the principle of the invention or the result thereby secured, which is the production of the back and ends in one piece, with the fibers running longitudinally throughout its whole extent, the requisite flare of said parts being given by the direction of the saw-cuts by which the piece is separated from the block.

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

1. The process, herein described, of making carriage-seat backs and ends by cutting the same in one piece, and in a flaring form, from a block of timber previously bent or curved, substantially as shown and set forth.

2. As a new manufacture, carriage-seat backs and ends obtained from a block of timber first bent, as described, and then cut longitudinally into flaring sections, substantially as herein shown and described.

BENJAMIN HURLBURT.

Witnesses:

GEO. D. CRANE,
H. F. WILLSON.