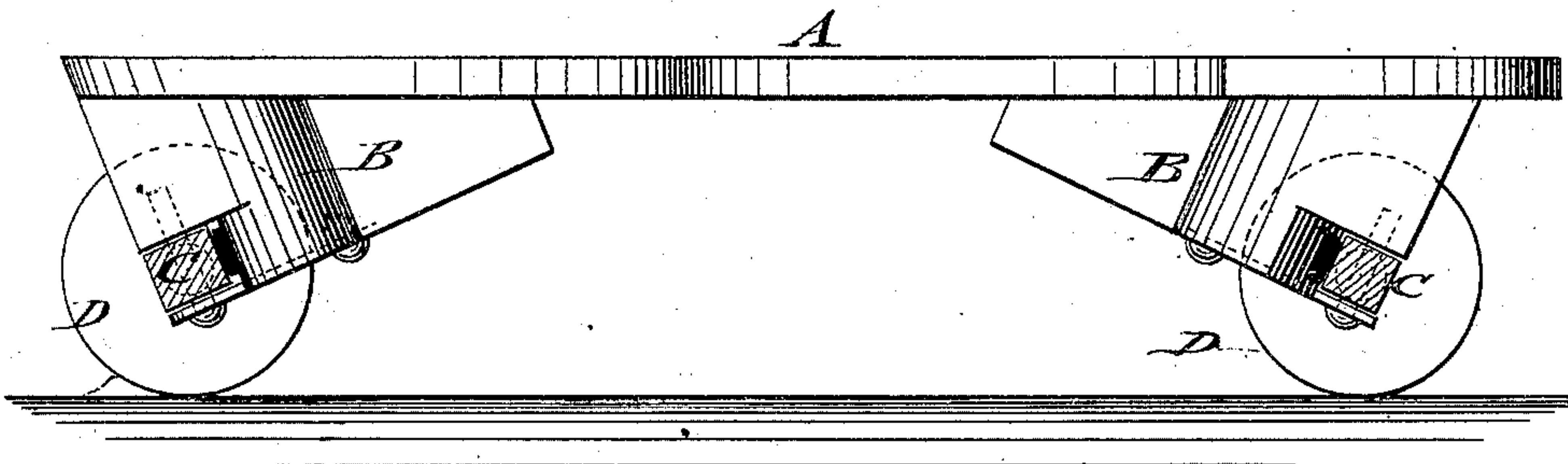


S. A. ALLEN.  
Roller-Skates.

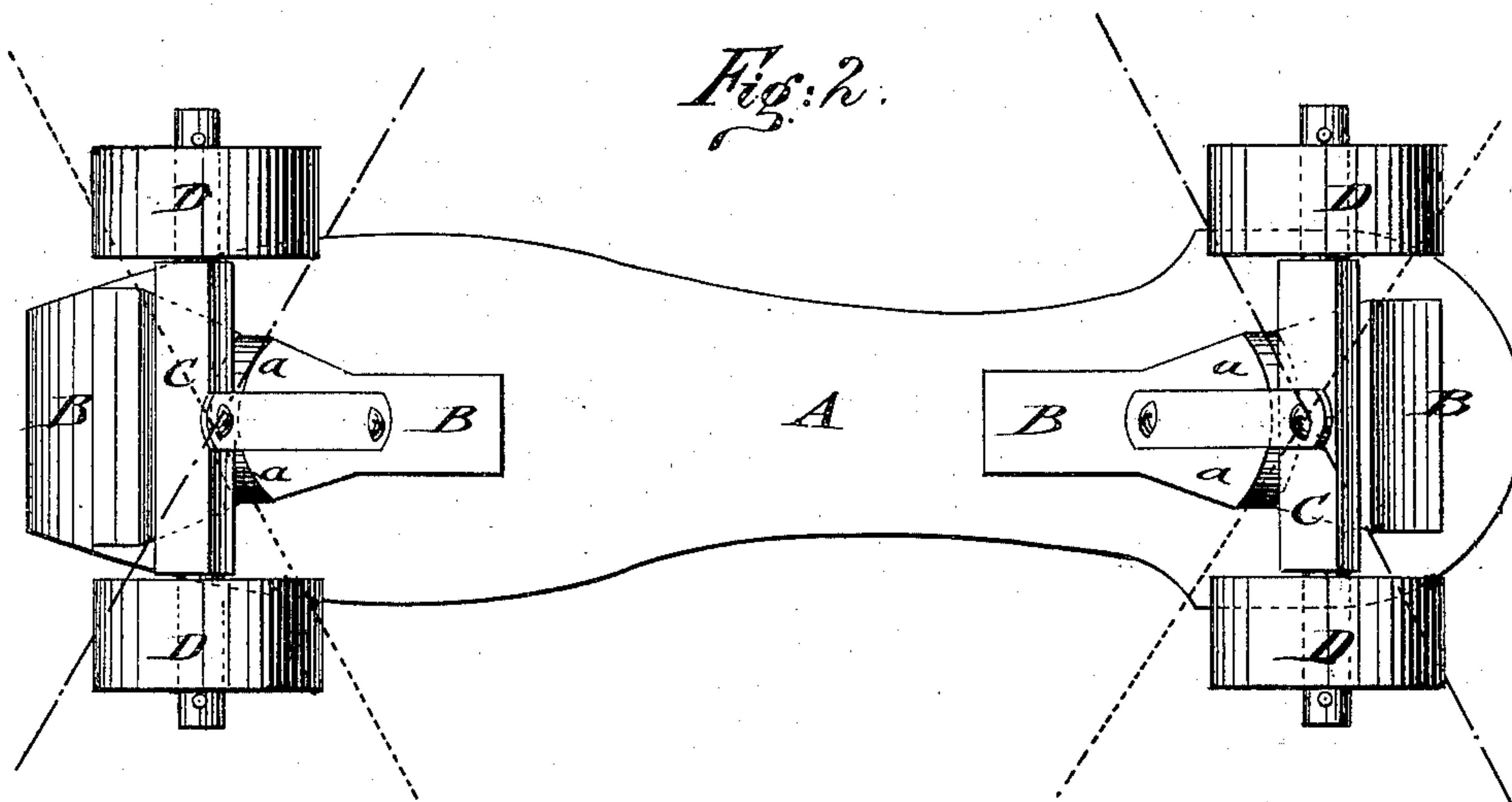
No. 199,009.

Patented Jan. 8, 1878.

*Fig: 1.*



*Fig: 2.*



WITNESSES:

*Chas. Nida*  
*J. H. Scarborough.*

INVENTOR:

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BY *Mumford*

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# UNITED STATES PATENT OFFICE.

SILAS A. ALLEN, OF NEW YORK, N. Y.

## IMPROVEMENT IN ROLLER-SKATES.

Specification forming part of Letters Patent No. **199,009**, dated January 8, 1878; application filed November 22, 1877.

*To all whom it may concern:*

Be it known that I, SILAS A. ALLEN, of the city, county, and State of New York, have invented a new and Improved Parlor-Skate, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a sectional side view, and Fig. 2 a bottom view, of my improved parlor-skate.

Similar letters of reference indicate corresponding parts.

This invention has reference to an improved parlor-skate, by which the curves may be rounded with great facility by the peculiar mounting of the roller-shafts to the hangers of the sole and heel plate; and the invention consists of the combined sole and heel plate, having solid triangular bottom pieces, which are recessed to form arc-shaped cheeks, along which the roller-shafts, that are pivoted to the center of the recessed pieces, swing, to admit, by the rocking of the sole and heel plates, the converging of the roller-shafts and the rounding of curves.

Referring to the drawing, A represents the combined sole and heel plate, and B the triangular bottom pieces, which are secured thereto in such a manner that the apex of each triangle extends downward, and the base forms contact with the under side of the sole and heel plate A.

The bottom pieces B are arranged on the sole and heel plate A in symmetrical position to the transverse axis of the skate, the apex of each bottom piece being rectangularly recessed for the shaft C of the supporting-rollers D.

The shafts of the front and rear sets of rollers are centrally pivoted to the recessed bottom pieces, the front shaft swinging at the front part of the recessed front piece B, and the rear shaft at the back part of the rear piece B.

Both shafts C bear against arc-shaped convex cheeks *a* of the bottom pieces B, and swing readily thereon from one side to the other,

forming an oblique angle with the longitudinal axis of the sole and heel plate, at one side or the other of the same.

Intermediate cushioning-blocks between the shaft and convex cheeks render the contact noiseless and facilitate the working of the shafts.

The inclined upper sides of the rectangular recesses of the bottom pieces B slide on the roller-shaft when the sole and heel plate is rocked by the foot to either side, so as to throw thereby the pivoted shaft at convergent angles to one side or the other of the longitudinal axis, according to the degree of side inclination given to the sole-plate, so as to admit thereby the easy and convenient rounding of curves by the rollers, and secure the corresponding position of the roller-shafts to each other by the greater or less inclination of the sole and heel plate.

The pivoted roller-shafts facilitate thus, in connection with the recessed triangular bottom pieces, the use of the skates for turning curves by a simple and cheap arrangement.

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

1. The combination, with plate A, of centrally-pivoted roller-shaft C and hangers B, having cheeks *a a*, as shown and described, whereby the plate is tilted and the shafts oscillated, as set forth.

2. In parlor-skates, the combined sole and heel plate, having triangular bottom pieces or hangers, with recessed pieces and convex cheeks, in combination with the centrally-pivoted roller-shafts, swinging in the recesses along the convex cheeks, all constructed and arranged for operation substantially as specified.

SILAS A. ALLEN.

Witnesses:

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