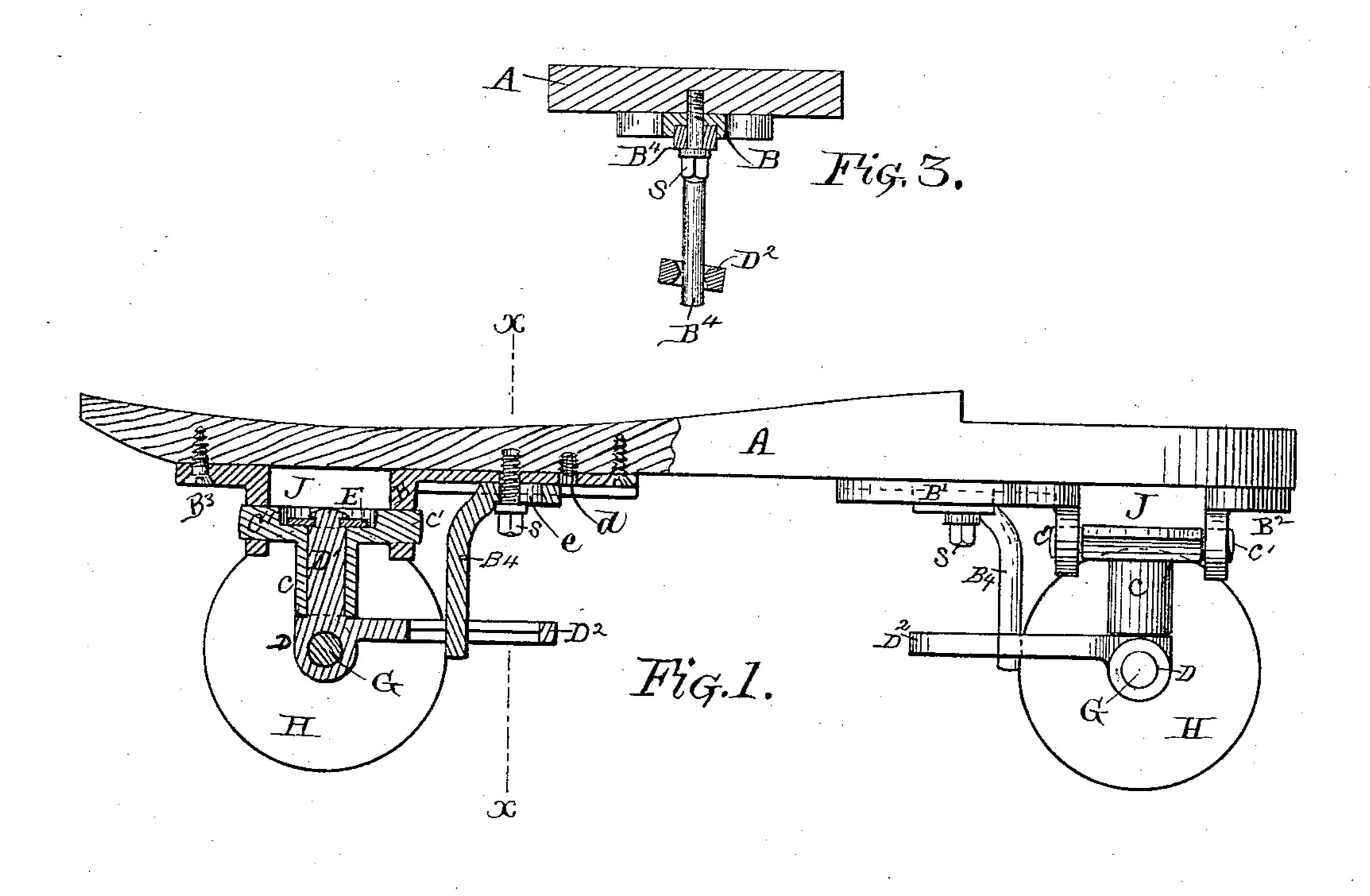
(No Model.)

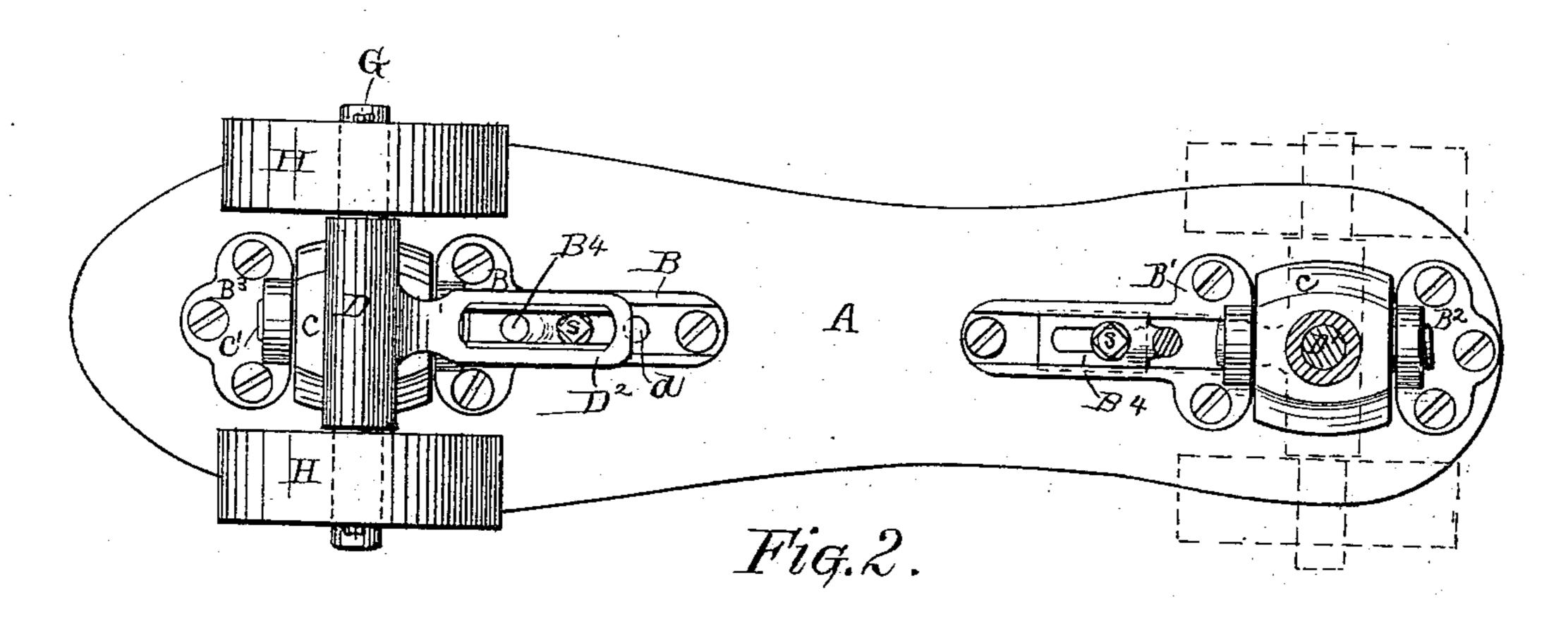
W. H. GRIFFITHS.

ROLLER SKATE.

No. 329,829.

Patented Nov. 3, 1885.





Witnesses.

Henry M. Dow-Benj. F. Triffe Milliam H. Griffithe

United States Patent Office.

WILLIAM H. GRIFFITHS, OF MEDFORD, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO HENRY M. DOW, OF SAME PLACE.

ROLLER-SKATE.

SPECIFICATION forming part of Letters Patent No. 329,829, dated November 3, 1885.

Application filed July 24, 1885. Serial No. 172,524. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. GRIF-FITHS, of Medford, in the county of Middlesex and State of Massachusetts, have invented 5 a new and useful Improvement in Roller-Skates, which will, in connection with the accompanying drawings, be hereinafter fully described, and specifically defined in the appended claim.

This invention has for its object an improvement in roller-skates; and it consists in the construction and combination of divers devices embodied therein, as is hereinafter more particularly and fully set forth and claimed.

In the accompanying drawings, Figure 1 is a side elevation of a skate embodying my invention, the forward part of the skate being shown in central longitudinal vertical section. Fig. 2 is an inverted or under side plan view of the skate shown in Fig. 1, with the rear rollers and part of the hanger removed. Fig. 3 is a transverse section taken as on line x x, Fig. 1, and viewed as from the right in that figure.

In said drawings, A represents the footboard, to which the other parts are secured, and upon which the user is supported. B, B', B², and B³ are angle-plates secured to A, as shown. In the depending ears of these plates 30 are pivoted the short sockets or sleeves c by their trunnions c', as shown in Figs. 1 and 2, thus allowing sleeves c a vibrating or swinging movement transversely to the longitudinal line of the skate. The axles G of rollers H 35 are mounted in sleeves D, which are formed with a stud, D', that fits loosely in sleeves c, and are secured therein by a washer, E, fitted upon the neck of the stud, which is riveted upon the washer. Formed upon and project-40 ing from sleeves D is a slotted arm, D2, which extends rearward from the front sleeve and forward from the rear sleeve, as shown in Fig.

1. An arm, B⁴, which passes through the slot

in arm D², is secured to the foot-board by a

screw, S, that passes through slot e in the foot 45 of the arm and through the angle-plates B, as shown, the foot of said arm being fitted to slide in a longitudinal groove in the angleplate, which serves to hold the arm rigidly in line with the axis of the skate. By means of 50 said slot e in the foot of arm B^{*} and a supplemental hole, d, the arm may be adjusted to engage arm B4 at any distance from stud D' within the scope of the slot in D2, it being obvious that the nearer arm B4 is to said stud 55 the farther will axles G be vibrated from a right angle to the axis to foot-board A by the same rocking action of the foot-board. In space J, between the foot-board and the broadened part of sleeve c, is arranged the usual 50 elastic buffer, which tends to hold sleeve c' and stud D' at right angles to the plane of footboard A.

By arranging arms D² to extend from their respective sleeves toward each other, the front 65 and rear rollers, when said arms are vibrated out of line, will move in a coincident circle, and by the adjustability of arms B⁴ toward or from pivots D' the radius of the circle in which the rollers will move by reason of the same 70 oscillation of the foot-board on trunnions c' may be varied as desired.

It will be obvious that, if desired, arms B⁴ may be slotted, with arms D² formed single to pass through them.

I claim as my invention—

The combination, with the axle-supporting sleeve D, constructed and arranged to vibrate in both a horizontal and vertical plane, and provided with horizontal arm D², of the engag- 80 ing and actuating arm B⁴, secured to and depending from the foot-board and made adjustable in the lineal direction thereof to vary its action upon arms D², substantially as specified.

WILLIAM H. GRIFFITHS.

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Witnesses:

T. W. PORTER, EUGENE HUMPHREY.