

(No Model.)

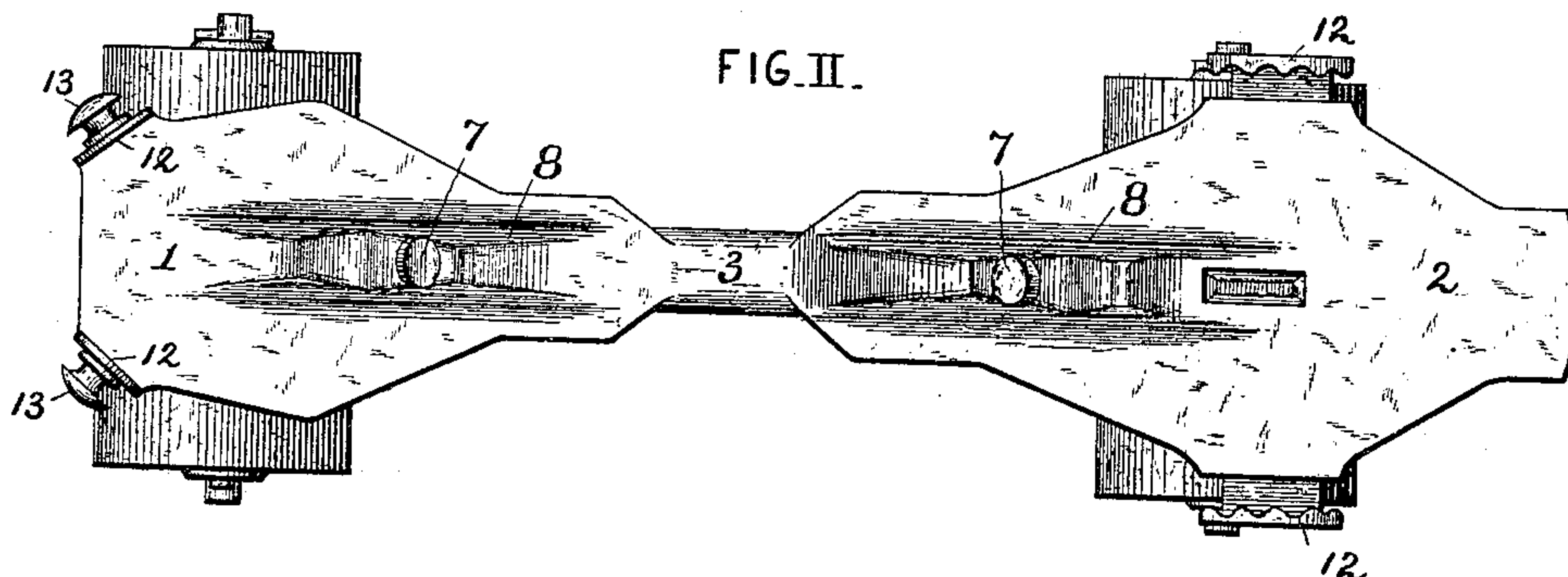
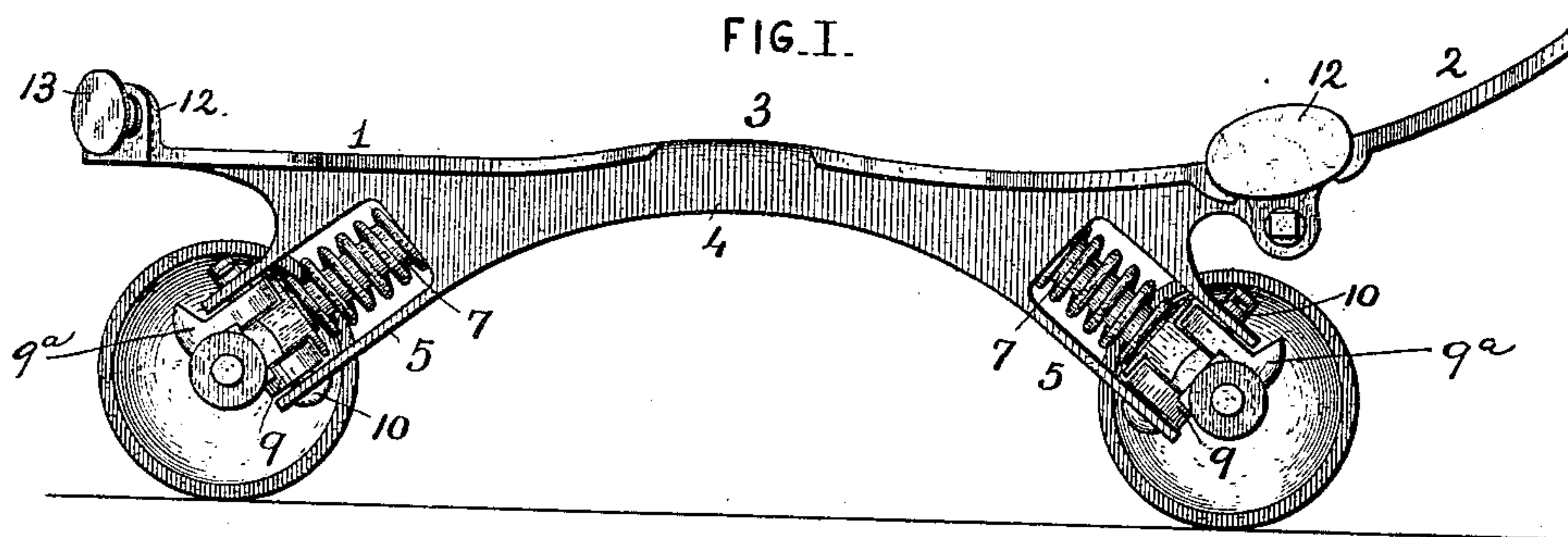
F. C. MILLER.

2 Sheets—Sheet 1.

ROLLER SKATE.

No. 329,582.

Patented Nov. 3, 1885.



ATTEST.  
J. Henry Kaiser.  
Harry L. Amer.

INVENTOR.  
Frederick C. Miller.  
By Knight Bros.  
Attys.

(No Model.)

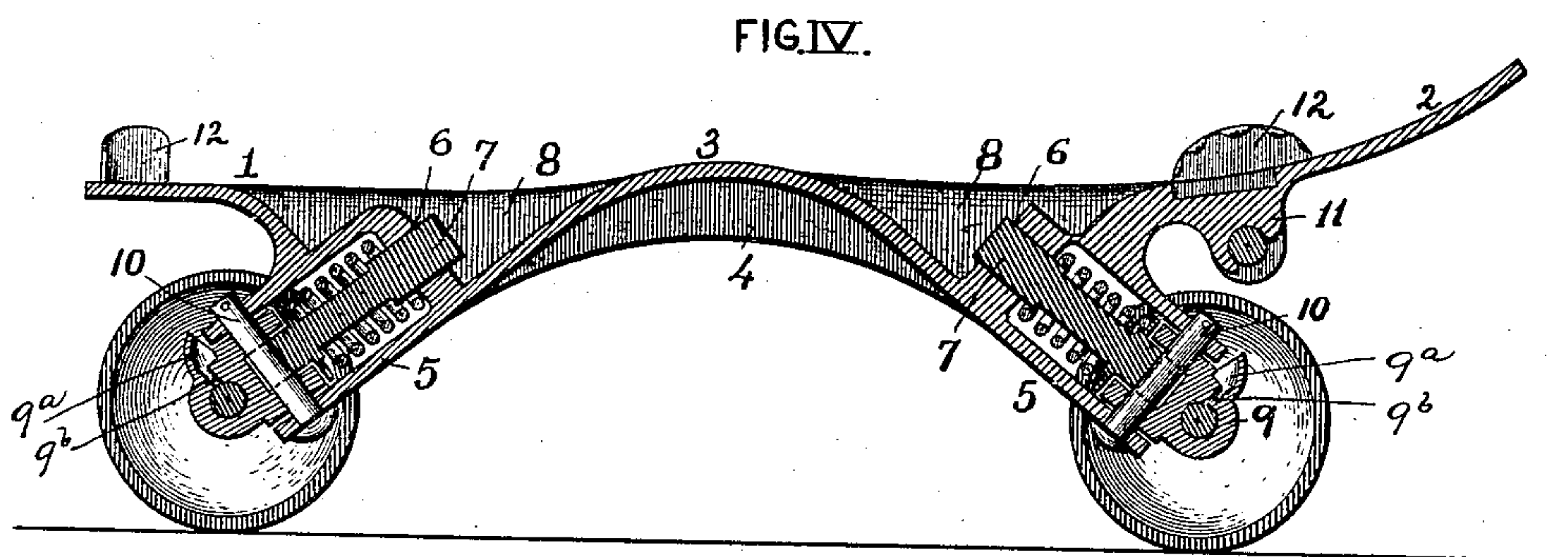
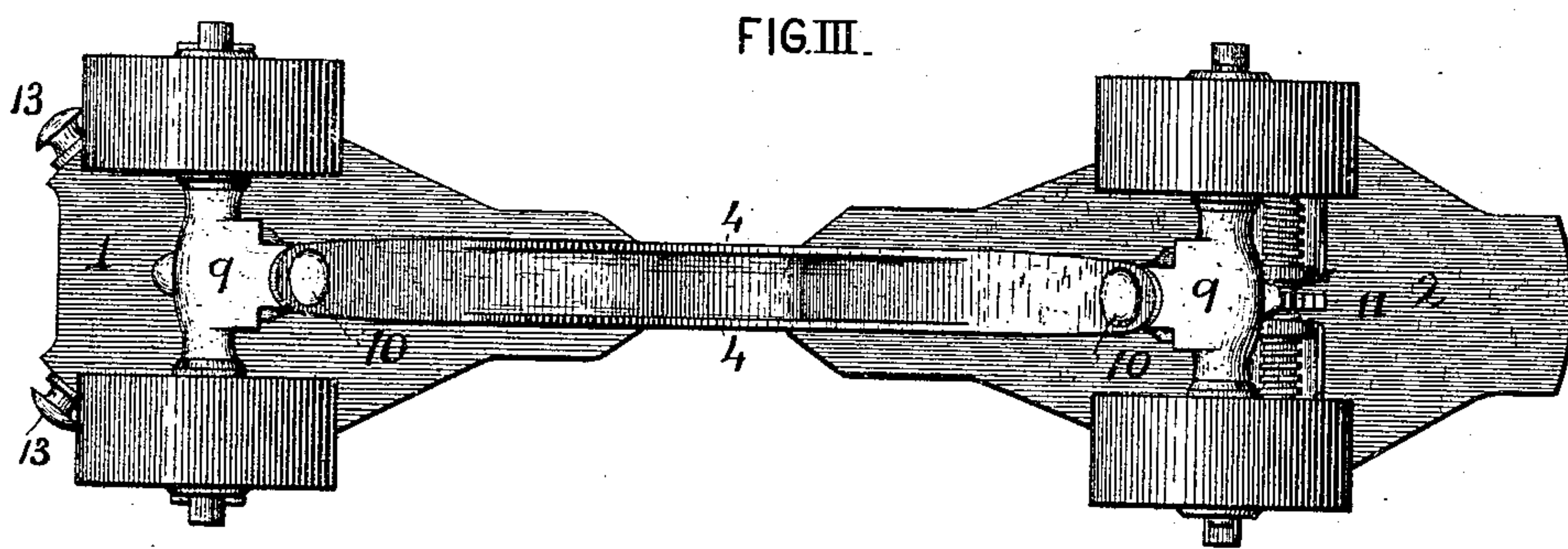
2 Sheets—Sheet 2.

F. C. MILLER.

ROLLER SKATE.

No. 329,582.

Patented Nov. 3, 1885.



ATTEST.  
J. Henry Kaiser.  
Harry L. Ames.

INVENTOR.  
Fredrick C. Miller  
By Knight Bros.  
Attys.



# UNITED STATES PATENT OFFICE.

FREDRICK C. MILLER, OF NEWPORT, KENTUCKY.

## ROLLER-SKATE.

SPECIFICATION forming part of Letters Patent No. 329,582, dated November 3, 1885.

Application filed March 19, 1885. Serial No. 159,441. (No model.)

*To all whom it may concern:*

Be it known that I, FREDRICK C. MILLER, a citizen of the United States, residing at Newport, in the county of Campbell and State of Kentucky, have invented certain new and useful Improvements in Roller-Skates, of which the following is a specification.

My improvement consists in the construction hereinafter described, and pointed out in claims.

In order that the invention may be better understood, I will proceed to describe it with reference to the accompanying drawings, in which—

Figure I is a side elevation of my improved skate, the floor-wheels on one side being removed. Fig. II is a plan view of the skate. Fig. III is a view from beneath the same. Fig. IV is a vertical longitudinal section thereof.

1 2 are respectively the toe and heel plates, which are connected by a rib or reach, 3, cast in one therewith. For greater strength the rib or reach 3 is made bow-shaped, and is provided with side flanges or ribs, 4, at that portion spanning the space between the toe and heel plates. The ends of the reach 3 are bifurcated, as shown at 5, and at each crotch a hole or bearing, 6, is drilled for the pin 7. The toe and heel plates 1 2 are recessed in casting, as shown at 8, to lighten the construction, while allowing freedom of endwise movement to pin 7. The lower end of pin 7 is of T shape or bifurcated, and bears on rocking journal or axle box 9, so as to control the movement thereof in the manner described in my co-pending application filed on January 21, 1885, Serial No. 153,538. The ends 5 of the reach are also drilled to receive the inclined pivot-pin 10, on which the journal-box 9 rocks. Each journal-box 9 is cast with an oil-cup, 9<sup>a</sup>, integral therewith, the oil being

fed to the axle through a small duct, 9<sup>b</sup>. These oil cups and ducts are located at the ends of the housings, so as to be in a convenient position for oiling the axles when the skates are in use. The toe-plate 1 is cast with lugs 11 on its under side, adapted to receive between them and form guides for the toe-clamps 12, which may have any ordinary or preferred means of adjustment. Upon the upper side of the heel-plate 2 are also cast upturned lugs 12, to which are fixed buttons 13, for attachment of heel-straps of any form desired.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

1. An arched coupling-reach for roller-skates, having recessed ends 5 5, providing housings with lower arms forming extensions to the body of the reach, and a toe-plate and a heel-plate formed on the respective ends of the reach, substantially as set forth.

2. A roller-skate coupling-reach of arch form, having bifurcated ends 5 5, recessed toe and heel plates, and side flanges, 4 4, the whole formed in one piece, substantially as set forth.

3. A coupling-reach for roller-skates, of arch form, having a toe-plate formed with lugs, in combination with toe-clamps working between said lugs, the said reach, toe-plate, and lugs being cast in one piece, substantially as set forth.

4. A coupling-reach, 3, having flanges 4 4, ends 5 5, toe-plate 2, having recesses 8, heel-plates having recesses 8, clamp-lugs 11 11 on the toe-plate, and upturned lugs 12 on the heel-plate, the whole cast in one piece, substantially as set forth.

FREDRICK C. MILLER.

Witnesses:

N. DU BRUL,  
J. F. BALDWIN.