(Model.)

S. R. & A. E. RUST.

ROLLER SKATE.

No. 309,254. Patented Dec. 16, 1884.

Fig. 1

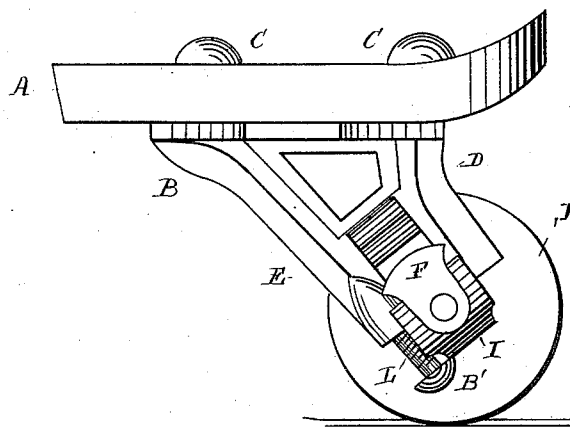


Fig. 2

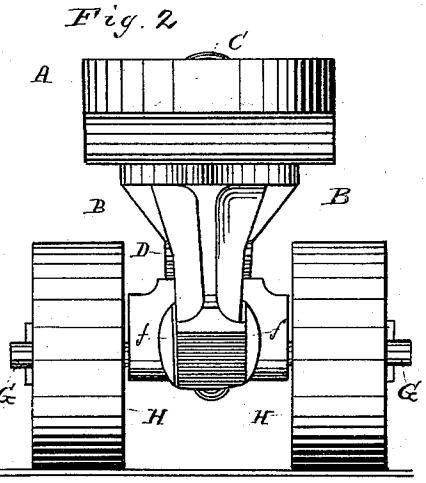


Fig. 3

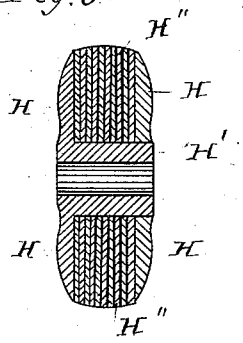


Fig. 4

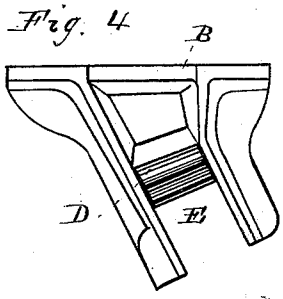


Fig. 7

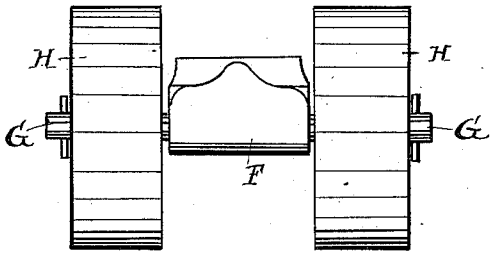


Fig. 6

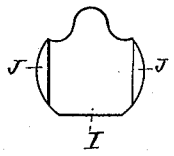
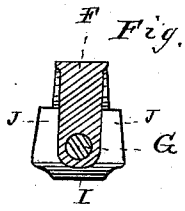


Fig. 5



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UNITED STATES PATENT OFFICE.

SOLON R. RUST AND ARTHUR E. RUST, OF PINE MEADOW, CONNECTICUT.

ROLLER-SKATE.

SPECIFICATION forming part of Letters Patent No. 309,254, dated December 16, 1884.

Application filed May 1, 1884. (Model.)

To all whom it may concern:

Be it known that we, SOLON R. RUST and ARTHUR E. RUST, citizens of the United States, residing at Pine Meadow, in the county of Litchfield and State of Connecticut, have invented certain new and useful Improvements in Roller-Skates, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to improvements in roller-skates, and has for its object to furnish a compound roller in such manner as to prevent slipping in a lateral direction, to provide means whereby circles are more easily turned, the ankles are relieved from strain, and an even rocking motion is obtained. These objects are attained by the mechanism illustrated in the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a side elevation of the front end of a skate with one of the rollers removed. Fig. 2 is an end elevation. Fig. 3 is a sectional view of one of the compound rollers. Fig. 4 is a detached view of the standard B. Figs. 5 and 6 are detached views of the yoke I, Fig. 5 showing axle and slide in section. Fig. 7 is a detached view of the rollers H and slide F.

The letter A indicates the foot of the skate, which may be made of any suitable material. B is a metal standard secured to the bottom thereof by means of screws or bolts C. This standard has a diagonal slot, E, in bottom of which is a rubber cushion, D, which bears against the upper portion of a slide, F, fitted to the slot E, and provided with lugs *f*, which are intended to maintain the slide in the proper position within the slot, and at the same time permit its movement up and down within the slot. The slide F has an opening, through which is inserted and secured the axle G, upon which the rollers H revolve. A yoke, I, having lugs J, which extend over the sides of the standard B, is placed over the bottom and the lower sides of the slide F and a little way up into the slot E. A screw, L, which is tapped into the standard B, having a head, B′, extending a little over the bottom of the yoke I, furnishes the means of adjusting the movement of the slide F and regulating the tension of the rubber spring or cushion D. This method of securing the rollers to the foot of the skate permits of a rocking motion for the purpose of turning circles, and also relieves the strain on the ankles of the person using the same. The proper tension is also secured, as well as an even rocking motion.

The rubber spring or cushion may be made in the form of a square block or of any other shape adapted to secure the ends in view.

The roller H is formed of two metal plates, H, fitted to a box, H′, which answers the purpose of a bearing for the axle, and may be a casting forming a part or both of the plates H.

The space between the plates H and around the box H′ is to be formed of compressed paper or muslin, H″, the periphery of which is to be coated with flour of emery, to prevent the skate from slipping in a lateral direction.

Having described our invention, what we desire to secure by Letters Patent, and claim, is—

1. In a roller-skate, the foot A, in combination with metal standard B, having a diagonal slot, E, adapted to receive a sliding block, F, provided with axle G and rollers H, as described, and for the purposes set forth.

2. In a roller-skate, the standard B, having diagonal slot E, in combination with the slide F, having axle G and rollers H, as described, and for the purposes set forth.

3. In a roller-skate, the standard B, having diagonal slot E, the yoke I, the slide F, the axle G, and the rubber D, in combination with the screw L, as described, and for the purposes set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

SOLON R. RUST.
ARTHUR E. RUST.

Witnesses:
O. S. THOMPSON,
JOSEPH W. DREYNWÔRZ.