(No Model.)

L. S. COLBURN.

ROLLER SKATE WHEEL.

No. 339,382. Patented Apr. 6, 1886.

Fig. 1.

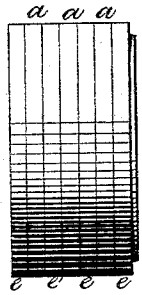


Fig. 3.

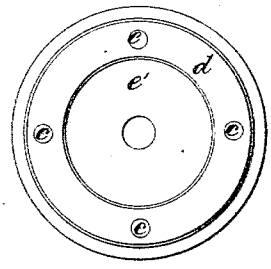
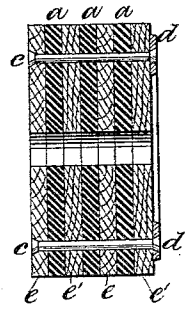


Fig. 2.



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UNITED STATES PATENT OFFICE.

LYMAN S. COLBURN, OF OBERLIN, OHIO.

ROLLER-SKATE WHEEL.

SPECIFICATION forming part of Letters Patent No. 339,382, dated April 6, 1886.

Application filed August 13, 1885. Serial No. 174,292. (No model.)

To all whom it may concern:

Be it known that I, LYMAN S. COLBURN, a citizen of the United States, and residing in the village of Oberlin, in the county of Lorain and State of Ohio, have invented a new and useful Improvement in Roller-Skate Wheels; and the following specification is intended to so correctly describe my invention that others may manufacture the same without further instructions.

The object of my invention is to produce a roller skate wheel that will not easily slip upon the floor, and that will feel slightly flexible under the foot when in use, and one that will make less noise and be more durable than the wheels now in common use, without adding much, if any, to the cost of production.

To attain these objects, I take thin boards or veneers of hard maple-wood, about one-eighth of an inch in thickness, and sheets of compressed paper of about the same thickness, and cement them together under adequate pressure in alternate or intervening layers, the various layers forming a block or board of suitable thickness to make the wheel.

In placing the wood layers I take pains to cross the grains of the wood, or, in other words, to place the grains or growths in each alternate layer of wood at right angles with each other, the object of this arrangement being to bring the end of the wood as much as possible to the wearing-surface of the wheel, both on the floor and on the axle of the skate.

To protect and prevent the outside corner from bruising or chipping when rounding corners or making an effort to stop, I securely fasten a metallic face plate or ring on the outer face of the wheel with rivets passing through the entire structure, said rivets answering the double purpose of holding the ring in place and also preventing the different layers of wood and paper from being separated in case the cement should become dissolved by moisture or heat. To prevent the metallic ring from coming in contact with the floor and interfering with the perfect working of the wheel proper, I make it about one-eighth of an inch smaller in diameter than the body of the wheel.

In order that others may more fully understand the construction of my invention, I have annexed drawings hereunto, in which—

Figure 1 is peripherical view of the wheel. Fig. 2 is an axial sectional view of the same transverse to the different layers of wood and paper, and exposing the grains of the wood as placed crosswise with each other, showing also the rivets passing through the wheel. Fig. 3 is a view of the outer side of the wheel.

Similar letters refer to similar parts in the different views.

a a a designate the dark or paper layers. *e e e' e'* designate the wood layers; *d*, the metallic ring or plate, and *c c c c* the rivets.

In Fig. 2, *e e* designate the end of the wood, while *e' e'* designate the edge or side grain of the wood.

I do not wish to confine myself to the use of any particular or special kind of wood or paper, neither do I to the use of the metallic plate or rivets, as a good wheel can be made from almost any kind of hard wood and from any of the various kinds of compressed paper, mill-board, or paper-board, and without the use of the plate or rivets.

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

1. A roller-skate wheel composed of layers of wood veneers and corresponding or alternate layers of compressed paper, paper-board, or mill-board, all securely cemented together, as described.

2. A roller-skate wheel composed of a plurality of wood layers and a plurality of paper layers, the wood layers having their grains or growths crossed or placed at right angles with each other, the whole being securely cemented together.

3. A roller-skate wheel composed of alternate or intervening layers of wood and compressed paper, having a metallic face plate or ring on the outer face of the wheel, to protect the corner from bruising, securely fastened thereto by rivets.

LYMAN S. COLBURN.

Witnesses:
FREDK. HAYNES,
HENRY MCBRIDE.