No. 616,458. Patented Dec. 27, 1898.

J. A. FOUGEREAU.

ALARM FOR ROLLER SKATES.

(Application filed July 11, 1898.)

(No Model.)

Fig. 1.

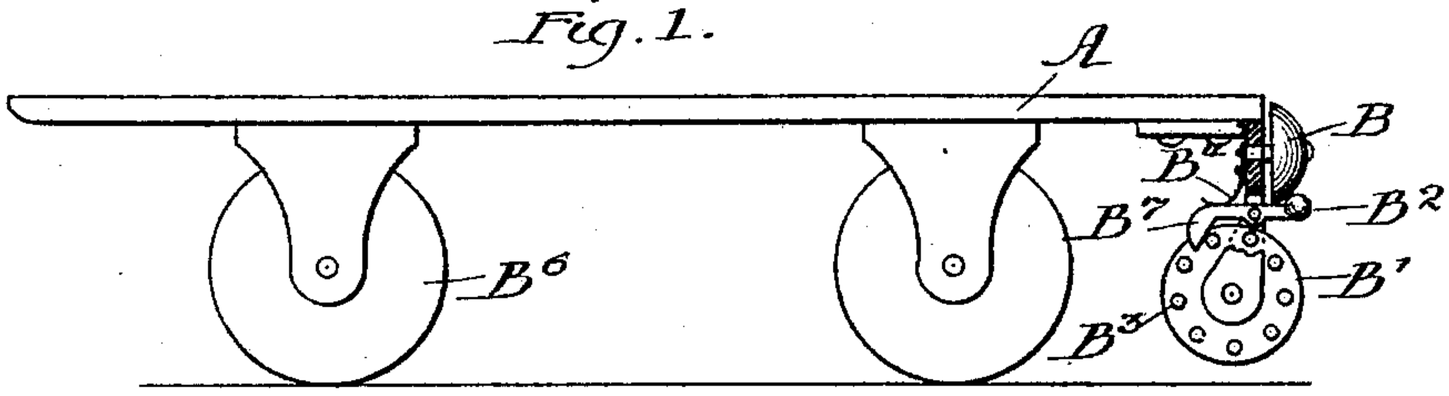


Fig. 2.

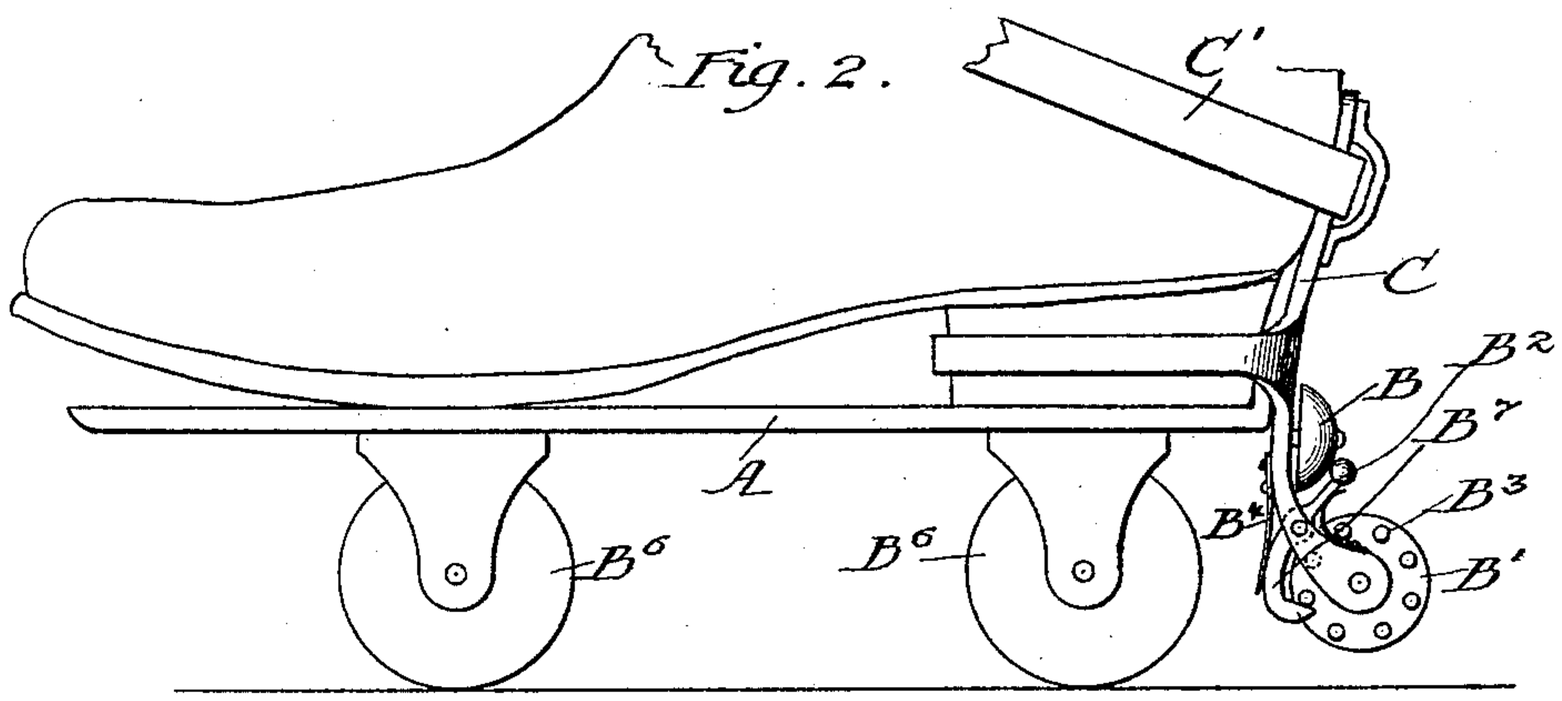


Fig. 3.

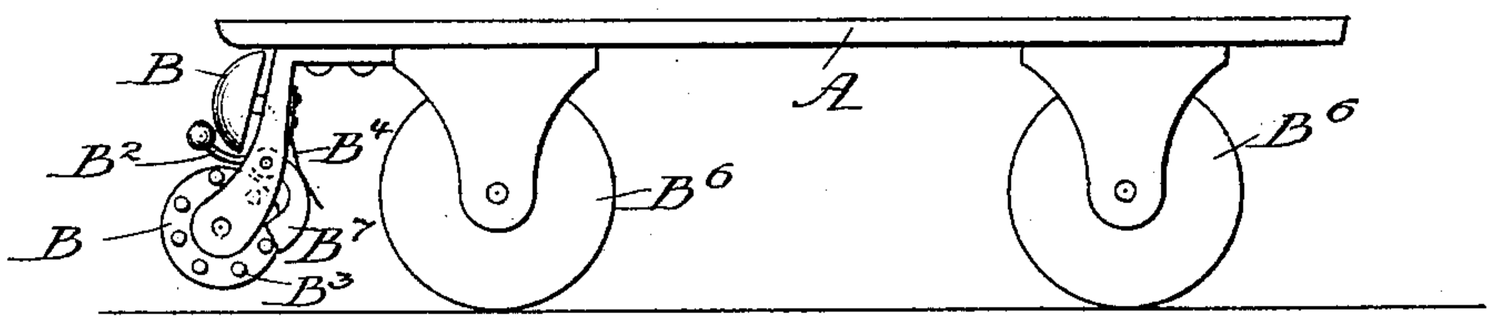
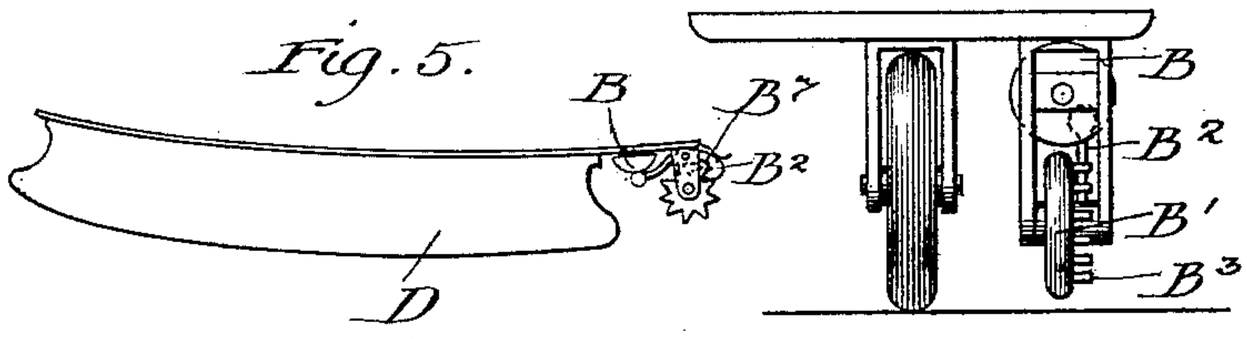


Fig. 4.

Fig. 5.



Witnesses
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UNITED STATES PATENT OFFICE.

JULIUS A. FOUGEREAU, OF CHICAGO, ILLINOIS.

ALARM FOR ROLLER-SKATES.

SPECIFICATION forming part of Letters Patent No. 616,458, dated December 27, 1898.

Application filed July 11, 1898. Serial No. 685,640. (No model.)

To all whom it may concern:

Be it known that I, JULIUS A. FOUGEREAU, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Alarms for Roller-Skates, of which the following is a specification.

My invention relates to alarm devices for skates and the like, and has for its object to provide a new and improved alarm device for this purpose.

My invention is illustrated in the accompanying drawings, wherein—

Figure 1 is a side elevation of a roller-skate provided with an alarm embodying my invention. Fig. 2 is a view of a roller-skate, showing a modified form of my invention. Figs. 3 and 4 are views showing further modifications of my device. Fig. 5 shows the alarm applied to an ice-skate.

Like letters refer to like parts throughout the several figures.

In the use of roller-skates, for example, it is desirable to provide the skater with some alarm device by which his presence may be made known when desired. I have illustrated in the drawings several forms of alarm devices for this purpose.

Referring to Fig. 1, I have shown the base or body A of a skate as provided with suitable rollers B^6, upon which the skater is supported. Some suitable alarm device B is associated with the skate or with the skater, and a suitable actuating device or actuator B′ is associated with the skate and adapted under certain conditions to actuate the alarm.

It is of course evident that any suitable alarm may be used and that any suitable form of actuating device may be employed, and I do not limit myself to any particular construction of these devices, having shown the devices in the drawings simply to make my invention clear.

As illustrated in Fig. 1, the alarm device B is suitably mounted and in this instance consists of a bell. A suitable hammer B^2 is mounted in proximity to the bell and is provided with a projecting part B^7, which normally projects into the path of the pins or projections B^3 on the wheel B′. A suitable spring or other holding device B^4 is associated with the parts, so as to normally hold the parts B^2 in the path of the pins B^3. The wheel B′ is under normal conditions so positioned as to be out of engagement with the surface over which the skater is traveling. When the skater desires to sound an alarm, he inclines the body or base of the skate A so as to bring the wheel B′ in contact with the opposed surface. When in this position, the wheel is rotated and the hammer B^2 operated so as to strike the bell a series of blows, and thus sound the alarm.

Instead of attaching the alarm and actuator directly to the skate I may attach them to the foot of the operator, as shown in Fig. 2. In this figure the wheel B′, alarm B, and associated parts are connected with the support C, adapted to be attached to the skater's foot in any suitable manner, as by means of the strap C′, the parts adapted to be so positioned as to be normally inoperative, the inclination of the skater's foot bringing them into operation.

As shown in Fig. 3, the alarm and actuator and associated parts are connected with the front of the skate and are operated by inclining the skate in a direction opposite to that in which it is inclined when the construction shown in Fig. 1 is used.

In Figs. 1 and 2 the actuator is preferably in line with the portion of the skate which engages the surface over which the skater is traveling.

In Fig. 4 I have shown the actuator and alarm attached to one side of the base of the skate. In this form the alarm is actuated by inclining the skate to one side.

In Fig. 5 I have shown the alarm device as associated with an ice-skate, the parts being connected with the body of the skate back of the runner D. With the later forms of skates used on public highways an alarm device is necessary. It is not so necessary with the old-style childrens' skates, and perhaps not so necessary with ice-skates; but in all such cases it has more or less value, and, in any event, adds to the attractiveness of the skates for the use of juveniles.

I have illustrated the alarm device as placed in proximity to the actuator; but it is of course evident that the alarm may be placed at any point desired. I have described in detail several constructions setting forth my invention in order to make this application

clear; but it is of course evident that these constructions may be varied and that the arrangement of the parts may be changed without departing from the spirit of my invention, and I therefore do not wish to be limited in any manner by the constructions shown.

The real essence of the invention consists in the association with the skate or foot of the skater an alarm device, of no matter what character or nature, with an actuator of any character or nature and adapted to the surface over which it operates, the actuator normally out of engagement with such surface, and connections between the two of any desired nature, so that when the actuator is depressed upon the surface the alarm is operated.

I claim—

1. A skate-alarm device comprising an alarm proper, an alarm-actuator associated with the skate so as to be slightly elevated under normal conditions, and a connection between the actuator and the alarm proper so that the alarm is given when the actuator is depressed.

2. The combination of a skate with an alarm device attached thereto, an alarm-actuator also attached thereto and so as to be slightly elevated when the skate is in a normal position, and a connection between the two so that when the actuator is pressed down the alarm device is operated.

3. The combination of a skate with an alarm device attached thereto, an alarm-actuator attached thereto, substantially in line with that portion of the skate which rests upon the surface, the actuator supported so as to be slightly elevated, and connections between the actuator and the alarm so that when the actuator is pressed down the alarm device is operated.

4. The combination of a skate with an alarm device attached thereto, an alarm-actuator attached thereto in line with that part of the skate which rests upon the surface and in the rear thereof and slightly elevated when the skate is in a normal position, and connections between the alarm and the actuator whereby when the actuator is depressed so as to touch the surface the alarm device is operated.

5. The combination of a skate with an alarm device containing a bell attached thereto, and an alarm-actuator containing a small wheel normally elevated and connections from the wheel to the bell so that when the wheel is depressed and rotating the bell is operated to give the alarm.

6. An alarm device for skates consisting of an alarm device proper, an alarm-actuator, connections between the two whereby when the actuator is operated the alarm is also operated, and attachments whereby the device is attached to the foot in connection with the skate so that the alarm-actuator is slightly elevated when the skate is in a normal position.

7. The combination with a skate of an alarm device, an actuator therefor normally inoperative during the ordinary use of the skate, said actuator adapted to be brought into operative contact with the surface over which the skate passes by varying the position of said skate.

8. The combination with a skate of an alarm device, an actuator therefor fixed in position with relation to said skate and provided with a part opposed to the surface over which the skate passes, but normally out of engagement therewith, said part adapted to be brought into engagement with said surface by varying the position of said skate.

July 6, 1898.

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Witnesses:

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