A skateboard manually driven comprises platform (6), to which are connected two pairs of wheels (7) and a central wheel (8) distinguished with this that the platform (6) comprises a device for rotating the central wheel (8) with a rope (2), where both pairs of wheels (7) are with standard suspension for a skateboard.
SKATEBOARD MANUALLY DRIVEN

ABSTRACT OF THE DISCLOSURE

Skateboard manually driven, comprises platform (6), to which are connected two pairs of wheels (7) and a central wheel (8) distinguished with this that the platform (6) comprises a device for rotating the central wheel (8) with a rope (2), where both pairs of wheels (7) are with standard suspension for a skateboard.

FIELD OF THE INVENTION

This invention relates to a platform for moving on a flat, smooth and hard surface for sport and entertainment.

BACKGROUND OF THE INVENTION

There are different types of moving platforms on wheels for sport well known as skateboards or with other names. The movement is achieved by pushing one leg against the ground or twisting the body or other way. It is known a platform with a device moving the rear wheels with a rope pulled by hand. It is known a platform moved by gasoline motor. It is known a platform with a central wheel moved by electric motor. There are not known platforms for sport moved by a central wheel which is rotated by hand.

SUMMARY OF THE INVENTION

According to the invention a skateboard manually driven comprises a platform to which are connected two pairs of wheels and a central wheel, distinguished with this, that the platform comprises a device for rotating the central wheel with a rope, where both pairs of wheels are with standard suspension for a skateboard.

Further according to the invention the device for rotating the central wheel is connected to the platform and consist on it's axle a reel with winded rope which has on the other end a handle.
Still further according to the invention the reel is on axle with both ends in double ball bearing housings connected to two bearers.

Still further to the invention the coupling between the reel and the axle is a standard bearing-clutch, transmitting the rotation in one direction only. The axle is attached to a central wheel with a pin.

Still further to the invention the reel has two compartments in one body, one is for the rope, the other is for the rubber band.

Still further to the invention the bearers are connected to the platform with springs and bolts through them.

Still further to the invention there is a rubber band under the platform on rollers with one end attached to the platform and the other end connected to the reel.

**BRIEF DESCRIPTION OF THE FIGURES**

An embodiment of the invention described by way of example only follows with reference to the accompanying drawings in which:

Fig. 1 is a side view of the skateboard in use according to the invention.

Fig. 2 is a cross-section through the axle of the central wheel.

Fig. 3 is a view of the skateboard from the ground.

**DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS**

Skateboard manually driven comprises platform 6 to which are connected two pairs of wheels 7 and a central wheel 8, distinguished with this, that the platform 6 comprises a device for rotating the central wheel 8 with a rope 2 where both pairs of wheels 7 are with standard suspension for a skateboard. The device for rotating of the central wheel 8 is connected to platform 6 and comprises reel 1 on axle 10 with both ends in double ball bearings 11 in housings 5 connected to two bearers 4. Both bearers 4 are connected with springs 16 and bolts 17 to the platform 6.
The reel 1 comprises a bushing 15 on which is winded rope 2, one end of which is connected to the bushing 15 with boll 3 and the other end is connected to the handle 9.

The reel 1 has two compartments in one body and in one of it is winded rope 2, the other is for winding rubber band 13. The rubber band 13 is connected one end to the reel 1 and other end to the platform 6.

The reel 1 has bushing 15 in which is integrally connected a standard bearing-clutch 12 mounted on axle 10 to which is connected central wheel 8 with a pin 14.

**USE OF THE INVENTION**

The user steps on the platform 6 with both legs and pulls with one hand rope 2 with handle 9 which rotates reel 1 connected with bearing-clutch 12 to axle 10.

Axle 10 transmits accelerating rotation on central wheel 8 with pin 14 which comes from reducing the diameter with unreeling the rope 2 on reel 1.

The pull of rope 2 is with a travel of 50-60 cm and the rubber-band 13 is stretched and wind on reel 1.

When the user release the rope 2, rubber-band 13 rewind the rope2 on reel 1.

This cycle is repeated with a frequency dictated by the willingness and the ability of the user. The use of the invention does not exclude the conventional way of driving a skateboard.

Springs 16 secured a sufficient contact and pressure of the central wheel 8 to the ground for transmitting the movement. They can be adjusted by bolts 17 in a means to ensure a sufficient travel when the user steps on the platform 6.

It is understandable that the central wheel 8 will be lower from the plain formed by the other wheels if no user stays on the platform 6. When a user steps on the platform 6 he compresses the springs 16 with his weight and all five wheels are in a same plane.

Diameter of the rope 2 could be about 10 mm and the diameter of the rubber-band could be about 8 mm. The user controls the direction of movement the same way like on the standard skateboard by leaning its body to the left or to the right due to the standard suspension 7. The user is able to stop by touching its rear foot to the central wheel 8.

The central wheel could be with diameter about 30 cm (12") and could be solid or inflatable.
ADVANTAGES OF THE INVENTION

The use of the invention will enable the user to exercise the upper body muscles and specifically arms and shoulders at the open areas which is an opportunity not often given with similar sporting devices. This is combined with entertainment and socializing for young people.

LIST OF RELATED PATENTS:

US 4234204A
US 4807896A
GB 1299959A
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WHAT IS CLAIMED IS:

1. Skateboard manually driven comprising a platform (6) to which are connected two pairs of wheels (7) and a central wheel (8) distinguished with this that the platform (6) comprises a device for rotating the central wheel (8) with a rope (2) and rubber band (13) on a reel (1) mounted in an opening in the center of the platform (6) with a pair of springs and bolts.

2. Skateboard of claim 1, in which the device for rotating the central wheel (8) is connected to the platform (6) and comprises a reel with a solid body or assembled, forming two compartments for the rope (2) and rubber-band (13) both connected to the reel (1).

3. Skateboard of claims 1 and 2 in which the device for rotating the central wheel (8) is mounted on the platform (6) with a pair of springs (16) and bolts (17) or in other means by material having spring properties to ensure a sufficient ground contact.

4. Skateboard of claims 1, 2 and 3 in which a central wheel (8) is integrally connected to an axle (10) with both ends in ball bearings (11) or other kind of bearings in housings (5) connected to bearers (4) attached to the platform (6).

5. Skateboard of claims 1, 2, 3 and 4 in which a rubber-band (13) or other expandable material is attached to the platform (6) on rollers (18) and connected one end to the reel (1) and the other end to the platform (6).
A. CLASSIFICATION OF SUBJECT MATTER
INV. A63C17/12
ADD. A63C17/01

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
A63C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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* Further documents are listed in the continuation of Box C. 
X See patent family annex.

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Date of mailing of the international search report: 04/01/2016
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Authorized officer: Brunie, Franck

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