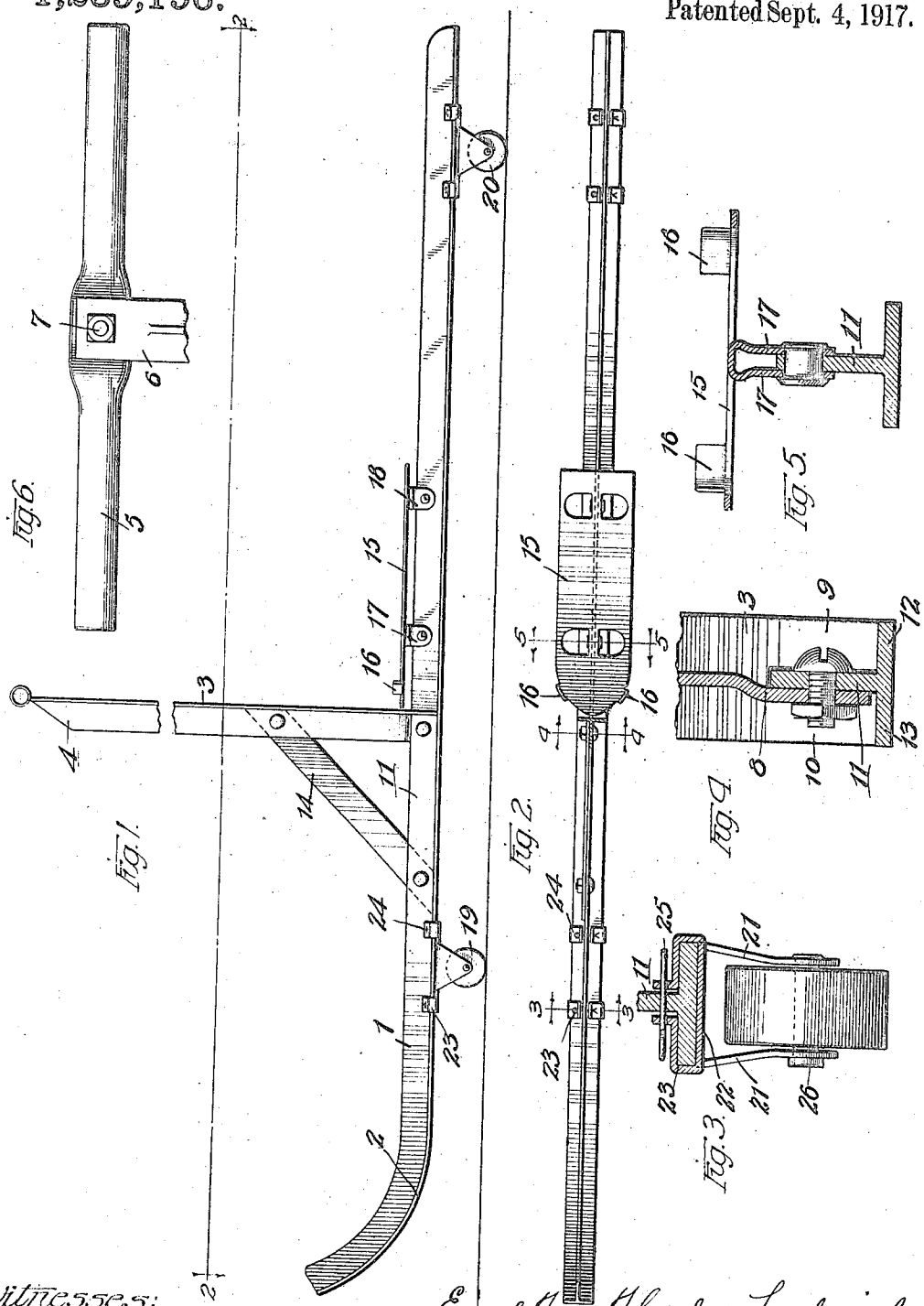
E. F. T. LUNDQUIST.

COASTER.

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1,239,196.

Patented Sept. 4, 1917.




Witnesses:
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# UNITED STATES PATENT OFFICE.

ERNEST FRED THEODORE LUNDQUIST, OF CHICAGO, ILLINOIS.

## COASTER.

1,239,196. Specification of Letters Patent. Patented Sept. 4, 1917.

Application filed January 26, 1917. Serial No. 144,682.

*To all whom it may concern:*

Be it known that I, ERNEST FRED THEODORE LUNDQUIST, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented and produced a Coaster; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part thereof.

My invention relates to coasters and particularly to those which are propelled intermittently by foot power.

This type of device which is familiar to children is operated by resting the weight of the body on one foot which is placed upon the coaster and pushing on the ground with the other foot to propel the device. The momentum which is acquired by pushing is utilized in coasting.

This invention aims to provide an improved construction of coaster. The invention further aims to provide improved means for adapting the device to operate by rolling upon floors or pavements or by gliding upon ice and snow.

The present device is constructed in the form of a runner with a pedal member upon which the weight of the operator is rested and an upright tiller post which is employed in steadying the weight of the body and in directing the device. Detachable roller members which may be applied or removed as desired are provided so that the coaster may be used on the pavement or sidewalks when the rollers are attached or upon ice or snow when the rollers are detached.

In the accompanying drawings in which I have illustrated an embodiment of my invention—

Figure 1 is a side elevation of the device;

Fig. 2 is a plan view taken on the line 2, 2 of Fig. 1;

Fig. 3 is a detail sectional view on the line 3, 3, of Fig. 2;

Fig. 4 is a detail sectional view on the line 4, 4, of Fig. 2;

Fig. 5 is a sectional view taken on the line 5, 5, of Fig. 2; and

Fig. 6 is a front elevation of top of the tiller post and the handle connected thereto.

The runner member 1 is constructed of T iron, as can be seen from the drawings, having the two flanges lying horizontally and the central flange disposed upward vertically. The front end 2 of the runner is curved upwardly so that it will ride easily over minor obstructions. A vertical tiller post 3 is secured to the runner 1 for guiding the coaster, and for steadying the weight of the operator thereupon. This tiller post 3 is constructed of a piece of T iron, the central flange being cut off diagonally, as shown at 4 in Fig. 1, near the top of the post, and a handle member 5 being attached to the double flanges as shown at 6 in Fig. 6. The handle member 5 consists of a piece of tubing which is flattened at the center so as to be easily secured to the double flanges 6 of the post 3. A bolt 7 is employed to secure this joint.

The lower end of the tiller post 3 is secured to the runner 1 in the manner shown in detail in Fig. 4. The lower end of the flange, as shown at 8, is sheared from the double flange members 9 and 10 of the post 3, a slot being cut in the double flanges at the center thereof in order to fit over the vertical central flange 11 of the runner 1. The double flanges 9 and 10 rest upon the double flanges 12 and 13 of the runner 1. The central flange 8 of the tiller post 3 is bolted to the central flange 11 of the runner 1.

A diagonal brace 14 is riveted to the central flanges of the runner 1 and the tiller post 3. The tiller post is thus securely fastened to the runner so that the operator may readily balance himself upon the device.

A foot plate or pedal member 15 is secured to the central flange 11 at about the middle point of the runner and just back of the tiller post 3. This foot plate consists of a piece of sheet metal having a pair of ears 16, 16, struck up from the curved front end of the same to prevent the foot of the operator from slipping off of the plate. Two pairs of lugs 17, 17 and 18, 18 are stamped from the metal of the foot plate and bent down upon opposite sides of the central flange 11 of the runner 1 to which flange these lugs or ears 17, 17 and 18, 18 are securely fastened as by riveting.

The device thus far described is adapted to be used on snow or ice, the double flanges of the runner resting upon the surface of the snow or ice and operating like the runner of a sled. I provide a pair of rollers 19 and 20 which may be attached to the double flanges 12 and 13 of the runner so

that the device may be employed upon pavements, sidewalks and the like.

Each of these roller members is provided with a frame consisting of a pair of ears 21, 21, struck up from a piece of sheet metal of which the roller frame is composed. The main body 22 of the roller frame lies flat against the lower surface of the double flange member and two pairs of ears 23, 24 are struck up from opposite ends of the main plate 22 fitting over the double flanges 12, 13 and having their ends extending upward along the central flange 11 of the runner 1. These ears and the central flange 11 are properly perforated for the introduction of cotter pins 25 which hold the roller frame properly in position.

It can be seen that the ears 23, 24, which are formed integrally from the edge of the main roller plate 22, keep the rollers 19 and 20 in proper alinement with the runner 1, and steady the same so that the device operates smoothly. When the rollers 19 and 20 are to be dispensed with the cotter pins 25 are withdrawn and the roller plates 22 may be easily slipped off of the runner 1.

I claim:

1. A runner formed of a T bar having its central flange extending upwardly, the front end of the runner curving upwardly, a foot-plate of sheet metal having a pair of lugs struck up from the metal of the plate and bent down against and secured to the opposite sides of the central flange of the runner, and means for steadying the weight of the operator upon said foot-plate.

2. A runner formed of a T bar having its central flange extending upwardly, a foot-plate of sheet iron having a pair of lugs struck up from the metal of the foot-plate and bent down against and secured to the opposite sides of the central flange of the runner, and a pair of clips at the front edges of the foot-plate, said lugs projecting up to prevent the foot of the user from sliding off of the plate.

3. In combination, a runner formed of T iron having the central flange extending upwardly, a tiller post extending vertically, said tiller post comprising a vertical T bar having its lower end slotted to straddle the central flange of the runner and having the adjacent central flange of the tiller post offset and secured to the side of the central flange of the runner.

4. In combination, a runner formed of T iron having the central flange extending upwardly, a tiller post extending vertically, said tiller post comprising a vertical T bar having its lower end slotted to straddle the central flange of the runner and having the adjacent central flange of the tiller post offset and secured to the side of the central flange of the runner, a handle of round tubing secured to the side flanges at the top of the tiller post and a diagonal brace of flat iron secured to the central flange of the runner and of the tiller post.

5. In combination, a runner formed of T iron having its central flange facing upwardly a tiller post formed of T iron having its central flange offset and secured to the central flange of the runner and a diagonal brace joining the central flanges of the tiller post and the runner.

In testimony whereof I affix my signature in presence of two witnesses.

ERNEST FRED THEODORE LUNDQUIST.

Witnesses:
HENNING T. JOHNSON,
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**Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."**