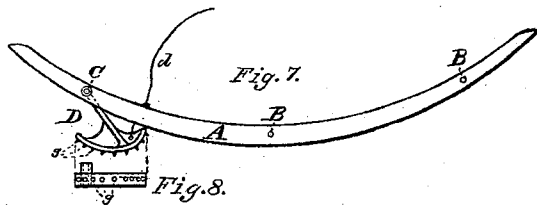
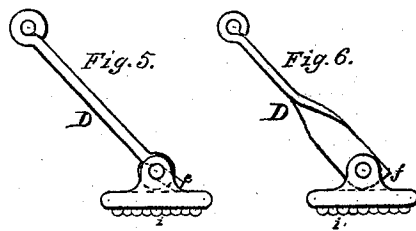
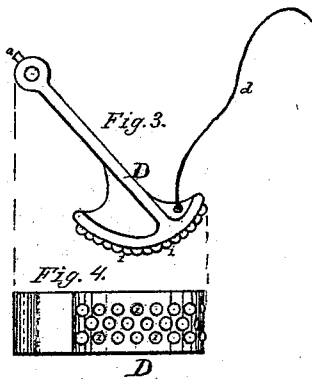
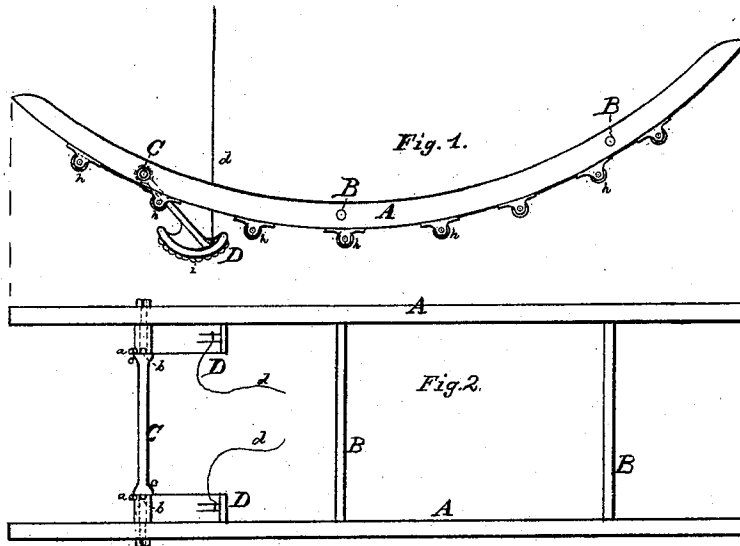


Hudson & Bowker,

Rocker Chair.

No. 109011.

Patented Nov. 8. 1870.



Witness:
Walter R. Burr }
D. W. Weston.

Charles H. Hudson
Joel Bowker
By H. James Weston,
Attorney.

United States Patent Office.

CHARLES H. HUDSON AND JOEL BOWKER, OF NEW YORK, N. Y., AS-SIGNORS TO CHARLES H. HUDSON.

Letters Patent No. 109,011, dated November 8, 1870.

IMPROVEMENT IN ROCKER-CHAIRS.

The Schedule referred to in these Letters Patent and making part of the same.

We, CHARLES H. HUDSON and JOEL BOWKER, both of the city, county, and State of New York, have invented a certain new and useful Self-propelling Rocking Device, of which the following is a specification.

Nature and Objects of the Invention.

Our invention consists in the combination with or application to a pair of rockers, such as are used for hobby-horses, chairs, &c., of a pawl or dog, or a pair or more of pawls, said pawl or pawls being hung or pivoted to the rockers at one end, and resting upon the floor or ground at the other, in such a manner as to force the horse or chair to advance or recede by the action of rocking, substantially as hereinafter set forth.

Description of the Drawing.

Figure 1 is a side elevation of a pair of rockers with our invention applied thereto.

Figure 2 is a top view of the same.

Figure 3 is a detached side elevation of one of the pawls on an enlarged scale.

Figure 4 is a bottom view of the same.

Figure 5 is a side elevation of a pawl of a different form.

Figure 6 is still another modification of the pawl, shown in side elevation.

Figure 7 shows the application of our invention to an ice-chair or vehicle.

Figure 8 shows the bottom of the pawl shown in fig. 7.

General Description.

A A are the rockers, of the ordinary form, held together and secured in place by the rods or bars B B and the shaft C.

Upon the shaft C the dogs or pawls D D are hung, so as to turn freely about the said shaft.

Stops *a a* and *b b* upon the shaft, and the dogs or pawls, prevent the latter from being thrown too far forward.

The collars or shoulders *c c* on the shaft serve to keep the pawls from sliding lengthwise of the shaft C.

The bottom surfaces of the pawls, which rest on the carpet or floor, are provided with cork or rubber pads, *i*, secured to them by being partly inserted in holes which are somewhat larger at the inner end than at the outer, whereby the pads are finally held in place.

These pads are designed to give the pawl a better hold upon the floor, and also to prevent their injuring the carpet or other floor-covering on which they are placed.

Instead of the pads, complete soles of rubber or other suitable material may be employed.

The pawls may be attached at the front, as shown, or at the rear end of the rockers, as may be desired.

One pawl alone may also be applied to either end, near the middle of the shaft to which it is hung.

When it is desired to turn the rockers to the right or left one of the pawls may be lifted and the other left in operation, which will produce the desired effect.

By inclining the body of the rider toward the side to which it is desired to turn, the turning will be facilitated.

The pawls may be lifted for the purpose of turning by cords or chains *d d* attached to them and held by the rider.

In the pawls shown in figs. 5 and 6 the foot is made separate from the stem, and pivoted to it, as shown.

In one case a pin, *e*, and in the other a projecting corner, *f*, strikes the shoe, and prevents it turning too far over.

When it is desired to use the rockers on ice, they are made with the bottoms or lower edges in form like the tread of skates, or merely in form of an angle or corner, which is presented to the ice, and gives sufficient hold whereby to guide the chair, horse, or vehicle.

The pawl is furnished with sharp projecting spurs or points *g* (shown in figs. 7 and 8,) which take hold in the ice and urge the chair forward, when a rocking motion is imparted to it.

Instead of the inserted points *g*, the pawl may be made with an edge similar to a saw, the teeth of which will act instead of the points *g*.

When the rockers are to be used on any surface other than ice they are furnished with rollers or little wheels *h h h*, on which they run, whereby the friction is lessened and the progress of the rockers or the chairs or horse mounted thereon rendered easy.

It is obvious that many modifications may be made in the details of construction of this invention, without departing from its substance, the above description setting forth but a few of such modifications. We do not, therefore, confine ourselves to the exact form and construction shown and described.

Claims.

1. The combination with the rocker of a chair, hobby-horse, or other article mounted on rockers, of the pawl or pawls, substantially as hereinabove set forth.
2. The combination, with the rockers A A, and pawls D D, of the cords or chains *d d*, as and for the purpose set forth.
3. The combination, with the pawls D, of the pads *i*, substantially as described.
4. The combination, with the rockers A, figs. 7 and 8, of the pawls D, armed with projecting points *g*, substantially as specified.

CHAS. H. HUDSON.
JOEL BOWKER.

Witnesses:

J. GOODALL,
S. R. STREETER.