

J. W. CULP.

SWING.

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1,079,933.

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Fig. 1

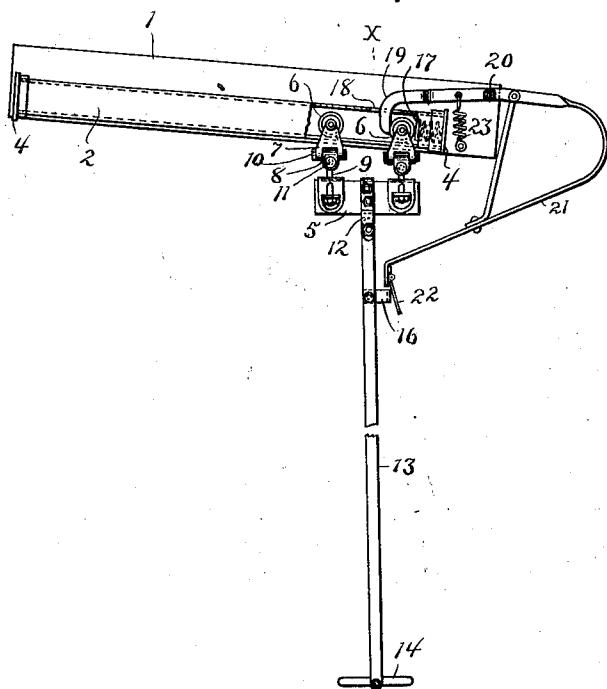


Fig. 2

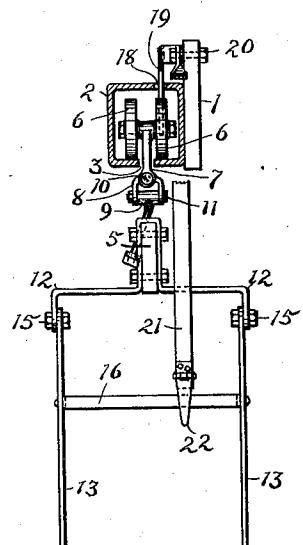
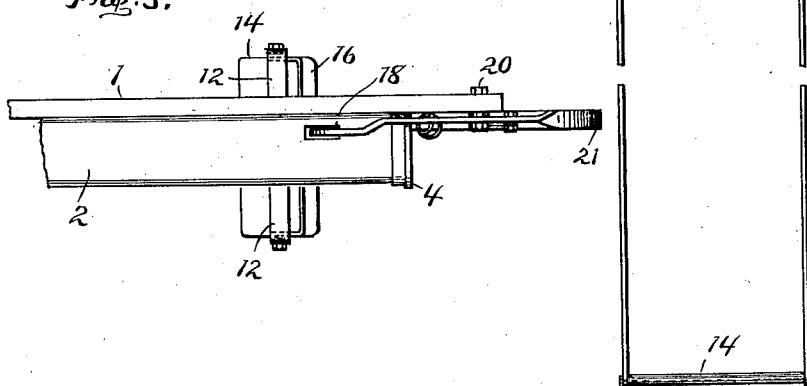


Fig. 3.



WITNESSES

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SWING.

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To all whom it may concern:

Be it known that I, JOHN W. CULP, a citizen of the United States, and resident of Huntington, county of Huntington, and State of Indiana, have invented certain new and useful Improvements in Swings, of which the following is a specification.

This invention relates to improvements in swings and the object thereof is to afford a construction for pleasure swings which will afford a bounding movement forwardly in addition to the customary swinging motion of devices in common use.

The object of this invention is accomplished by the construction shown in the accompanying drawings in which:—

Figure 1 is a side elevation of the device partially cut away and in section; Fig. 2 is a transverse section of Fig. 1 on the line *xx*; and Fig. 3 is a plan view of the same.

Similar numerals of reference indicate corresponding parts throughout the several views and referring now to the same: 1 is a supporting beam and 2 is a race-way secured thereto and arranged upon a slight incline. The race-way has a longitudinal slot 3 along its under side and a cap 4 at each of its ends. A hanger 5 having in connection therewith rollers 6, is supported by the latter which extend into and act within the race-way. The connection between the rollers 6 and hanger 5 comprises brackets 7, 8 and 9, the two former being held together by a bolt 10 and the two latter by the bolt 11 so that a universal joint is thereby effected between the hanger and the rollers. The hanger has in connection therewith lateral arms 12 that are oppositely disposed, and pivoted to these arms are swing bars 13 which support at their lower ends a seat 14. The bars 13 are pivoted to the arms by means of bolts 15 respectively and are also connected near their upper ends by a cross-piece 16.

In the rear end of the race-way 2 is a spring 17 against which the rearmost of the rollers 6 rests when the swing is in its rearmost position. In the top of the race-way is an opening 18 through which extends a hook 19 that engages the roller and retains it in position against the spring. The hook is pivoted as indicated at 20 and has a bent arm having at its lower end a pawl 22 adapted to come into contact with the cross-piece 16 on the swing-bars and be actuated thereby. The hook is adapted to

be held into engagement with the roller by means of a tension spring 23 attached thereto.

In the operation of this device, the occupant of the swing in place upon the seat 14 applies a swinging motion in the ordinary manner and when the bars are swung to and fro to such an extent that during the backward motion the cross-piece 16 will pass beyond the end of the pawl 22, the subsequent forward movement of the swing will result in the cross-piece 16 engaging the pawl which will cause the hook 19, through the action of its arm 21, to become disengaged from the rollers 6, and consequently the hanger with its rollers and swing attached thereto will become moved bodily forward through the force of the forward swinging motion of the occupant, the race-way affording guidance and support during its transit. During the returning swing of the occupant the hanger and its appurtenances return to the former position, the spring 17 acting as a buffer against the rearmost of the rollers 6, and the hook 19 again engaging said rollers and retaining the swing in rearmost position until again released as in the first instance. The slant of the race-way assures the return of the swing to normal position through the action of gravitation. It is of course to be understood that I contemplate the use of a level race-way, if desired, and that the described trip devices may be used at each end of the race-way, as well as at one end.

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

1. A pleasure device including a race-way, a swing supported for movement in said race-way, means for locking the swing at one end of the race-way and means for actuating the locking means to release the swing, said latter means being operated by the swing in the movement of the latter in the direction of its subsequent travel in the race-way.

2. A pleasure device including a race-way, a swing depending from and movably supported thereby, a trip to engage and secure the swing in fixed position in the race-way, and means for releasing the trip in the movement of the swing in the direction of subsequent travel in the race-way.

3. A pleasure swing comprising an inclined race-way; rollers supported by the

race-way; a hanger; brackets suitably pivoted together and affording universal joints between the rollers and hanger; a swing supported from the hanger; and a hook near one end of the race-way adapted to engage and hold the rearmost of the rollers and having also a pawl adapted to be engaged and actuated by the swing in its forward movement.

10 4. A pleasure device comprising a race-way, a swing depending from and movably supported thereby, a trip to engage and secure the swing in fixed position in the race-way, an arm connected to and adapted to operate the trip to release the swing, and means carried by the arm to be engaged by

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the swing in the movement of the swing in the direction of its subsequent travel in the race-way.

5. A pleasure device comprising a race-way, 20 a swing, a support movable in the race-way, a universal connection between said swing and support, swing locking means to secure the swing in fixed position in the race-way, and spring releasing means actuated by the swing in its movement in the direction of its subsequent travel in the race-way.

JOHN WESLEY CULP.

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."