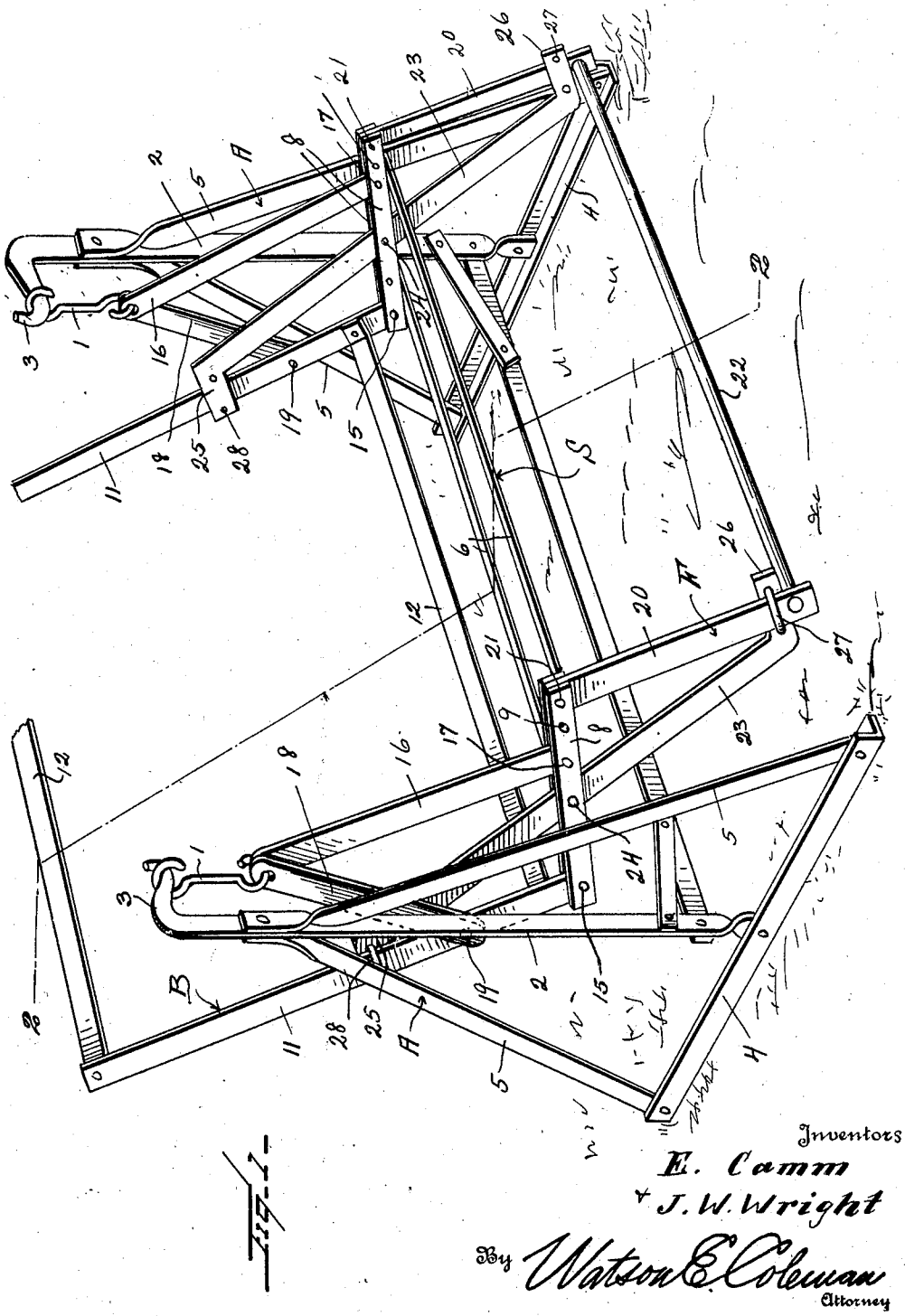
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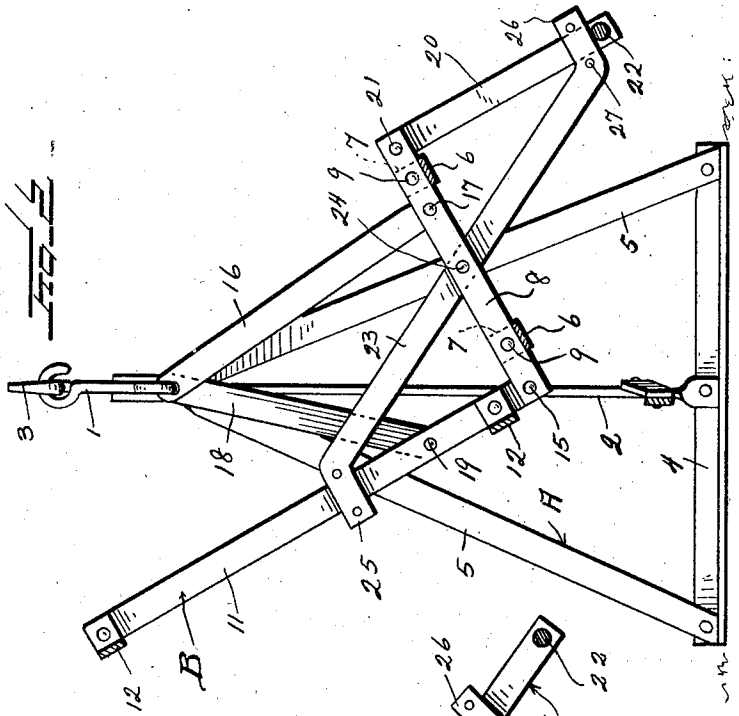
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E. Camm
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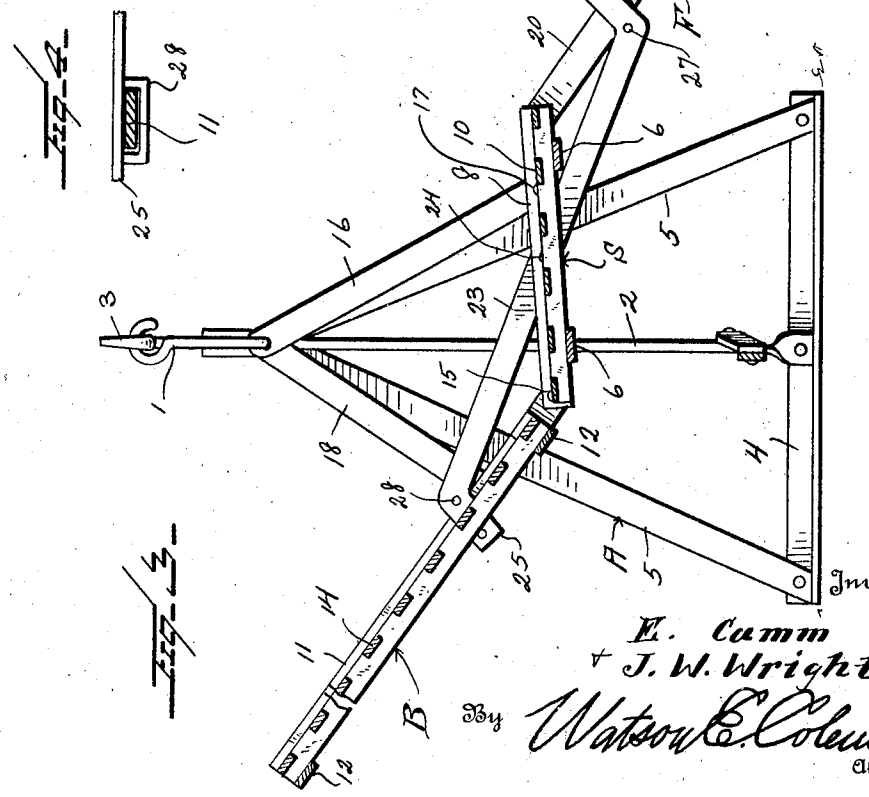
June 2, 1925. 1,540,540

E. CAMM ET AL

SWING

Filed July 10, 1924 2 Sheets-Sheet 2





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Patented June 2, 1925. 1,540,540

UNITED STATES PATENT OFFICE.

ERNEST CAMM AND JOHN W. WRIGHT, OF WHITEHALL, ILLINOIS, ASSIGNORS TO CAMM-WRIGHT-WEMKEN COMPANY.

SWING.

Application filed July 10, 1924. Serial No. 725,225.

To all whom it may concern:

Be it known that we, ERNEST CAMM and JOHN W. WRIGHT, citizens of the United States, residing at Whitehall, in the county of Greene and State of Illinois, have invented certain new and useful Improvements in Swings, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to certain improvements in swings and it is an object of the invention to provide a device of this general character constructed in a novel and improved manner whereby the same can be readily adjusted from upright position to approximately a horizontal position and vice versa.

It is also an object of the invention to provide a novel and improved device of this general character which can be employed with equal facility as a porch swing or lawn swing and wherein the swing can be readily adjusted to suit the comfort of the occupant upon applying pressure to the back and foot rest.

The invention consists in the details of construction and in the combination and arrangement of the several parts of our improved swing whereby certain important advantages are attained and the device rendered simpler, less expensive and otherwise more convenient and advantageous for use, as will be hereinafter more fully set forth.

The novel features of our invention will hereinafter be definitely claimed.

In order that our invention may be the better understood, we will now proceed to describe the same with reference to the accompanying drawings, wherein:—

Figure 1 is a view in perspective illustrating a swing constructed in accordance with an embodiment of our invention with the slats for the seat section and back section omitted;

Figure 2 is a vertical sectional view taken substantially on the line 2—2 of Figure 1;

Figure 3 is a view similar to Figure 2 but showing the seat section and back section in different relative positions and with the slats applied thereto;

Figure 4 is a fragmentary detail view illustrating the sliding connection of a member with a side bar of the back section.

As illustrated in the accompanying drawings, our improved device is shown as assembled for use as a lawn swing and is suspended by the hangers 1 from the side brackets A. Each of the side brackets comprises a vertical member 2 having its upper end portion provided with an inwardly disposed supporting hook 3 while the lower portion of said member 2 is secured to the central part of a base sill 4. Interposed between and connected to the outer end portions of the sill 4 and the upper portion of the member 2 are the bracing members 5.

Our improved swing comprises a seat section S consisting of the longitudinally disposed parallel strips 6, preferably of metal, having their extremities upturned, as at 7. Each of said extensions extending between a pair of side bars 8 and secured thereto by the rivets 9 or the like. These side bars 8 are also preferably metallic. The members 6 support in any preferred manner the conventional seat slats 10.

The back section B comprises the metallic side bars 11 connected adjacent their opposite ends by the metallic strips 12, said strips 12 having secured thereto the conventional wooden back slats 14. The lower end portion of each of the side bars 11 extends between the rear end portions of a pair of side bars 8 and pivotally connected therewith by the rivet 15 or the like whereby the back section B and the seat section S are connected for relative swinging movement. Extending between the forward portion of each pair of side bars 8 of the seat section S is the lower end portion of a metallic hanger lever 16 pivotally engaged therewith by a rivet 17 or the like. A second hanger lever 18 has its lower end portion pivotally engaged, as at 19, with the adjacent side bar 11 of the back section B at a point in relatively close proximity to the pivotal connection 15. Each pair of hanger levers 16 and 18 are disposed upwardly in convergence with their upper end portions overlapping and operatively engaged with a hanger 1. As herein disclosed, the hanger 1 is of a rigid type although it is to be understood that if desired a chain or the like may be substituted therefor.

The foot rest F comprises the metallic side bars 20, each of which having its upper or inner end portion extending between a pair of side bars 8 and pivotally connected therewith by a rivet 21 or the like. The

lower or outer end portions of the side bars 20 are connected by the metallic rod 22 with which is adapted to be directly engaged the feet of the occupant of the swing.

Disposed between the central portion of each pair of end bars 8 of the seat section S is an elongated metallic member 23, the portion of which between the bars 8 being pivotally engaged with the bars by the rivet 24 or the like. The member 23 is provided at its extremities with the oppositely disposed angular extensions 25 and 26. The lower extension 26 extends across the inner face of a side bar 20 of the foot rest F. This extension 26 carries an outstanding loop member 27 straddling said side bar 20 whereby the lower end portion of the member 23 has sliding connection with the bar 20. The upper extension 25 extends across the inner face of a side bar 11 of the back section B, said extension 25 being provided with an outstanding loop 28 straddling said side bar 11 whereby the member 23 also has sliding connection with the side bar 11. The mounting of the members 23 is such as to effect simultaneously swinging movement, but in reversed directions, of the back sections B and the foot rest F.

With the swing in its upright position pressure such as the weight of the occupant of the swing upon the back section B and pressure upon the rod 22 of the foot rest F as by pushing thereagainst with the feet of the occupant will cause the swing to assume an approximately horizontal position or such other intermediate inclining position as best suits the comfort of the occupant. Upon the occupant rising, the resultant weight imposed upon the rod 22 will cause the swing to return to its upright position, the relative movement of the side bars 20 and the extensions 26 being limited by contact of said extensions 26 with the bar 22 as is particularly illustrated in Figure 2 of the drawings. The downward swinging movement of the back section is limited by contact of each of the loop members 28 with a hanger lever 18 as is clearly indicated in Figure 3.

While the accompanying drawings illustrate our improved swing in assembly for use as a lawn swing, it will be readily understood that the same can be used with equal facility as a porch swing by properly adjusting the hangers 1 or if preferred said hangers may be suitably supported from the limb of a tree or other suitable support.

While we do not wish to be understood as limiting ourselves to the particular material to be employed in the construction of our improved swing yet the parts hereinbefore referred to as being metallic are preferably produced from steel.

From the foregoing description it is thought to be obvious that a swing constructed in accordance with our invention is particularly well adapted for use by reason of the convenience and facility with which it may be assembled and operated, and it will also be obvious that our invention is susceptible of some change and modification without departing from the principles and spirit thereof and for this reason we do not wish to be understood as limiting ourselves to the precise arrangement and formation of the several parts herein shown in carrying out our invention in practice except as hereinafter claimed.

We claim:—

A swing comprising, in combination, a seat section, a back section pivotally engaged with the seat section, side bars, a foot rest comprising side bars pivotally engaged with the seat section, and a rod connecting the outer end portions of said side bars; rigid members pivotally engaged with the end portions of the seat section, the extremities of each of said members being provided with oppositely disposed angular extensions, said extensions being provided with outstanding loops, the side bars of the foot rest being slidably disposed through the lower loops, the rod connecting said side bars coacting with the loops of the lower extensions to limit the relative movement of said extensions and side bars in one direction, the side bars of the back section being freely disposed through the upper loops, and a pair of hanger levers associated with each end of the swing, one of said levers being pivotally engaged with the seat section and the other of said levers being pivotally engaged with the back section, the upper loops contacting with the levers engaged with the back section to limit the relative movement in one direction of the side bars of the back section and the upper extensions of the rigid members.

In testimony whereof we hereunto affix our signatures.

ERNEST CAMM.
JNO W. WRIGHT.