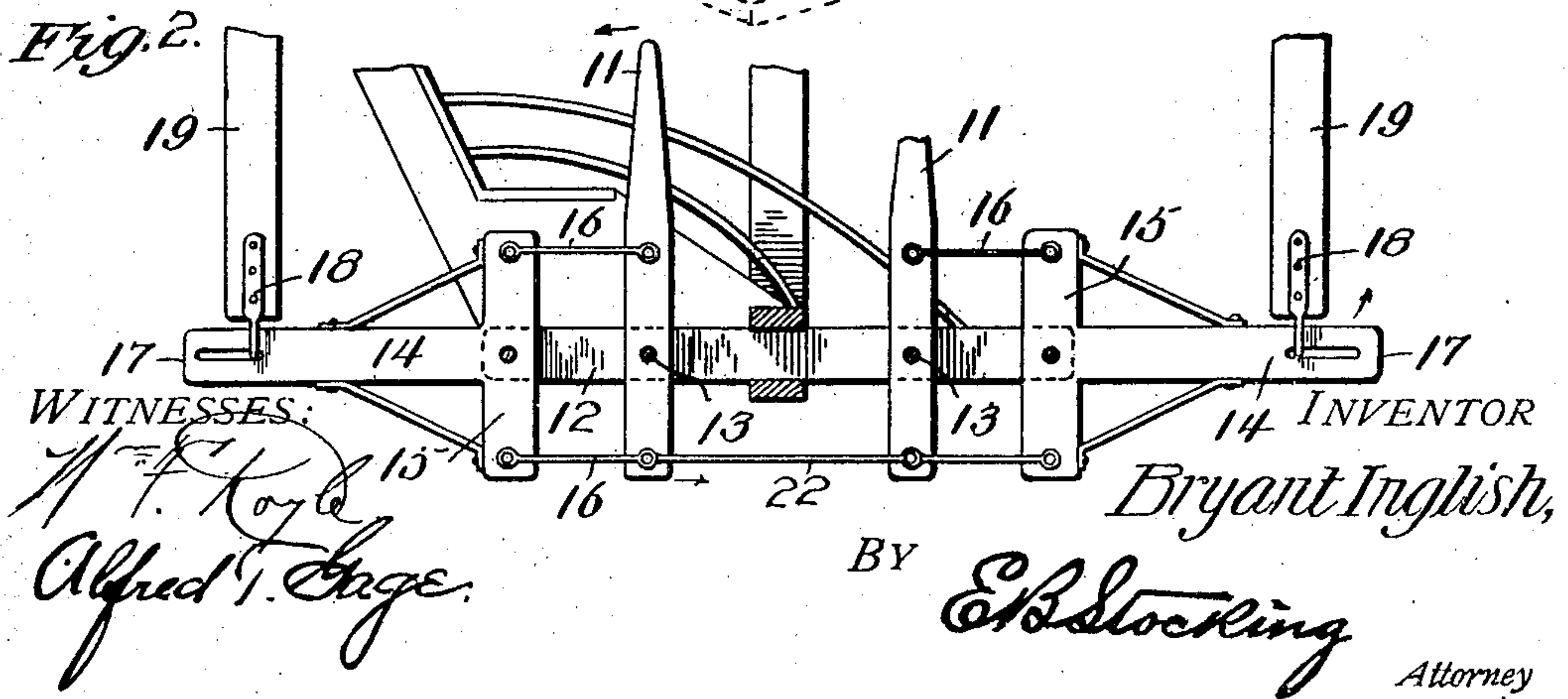
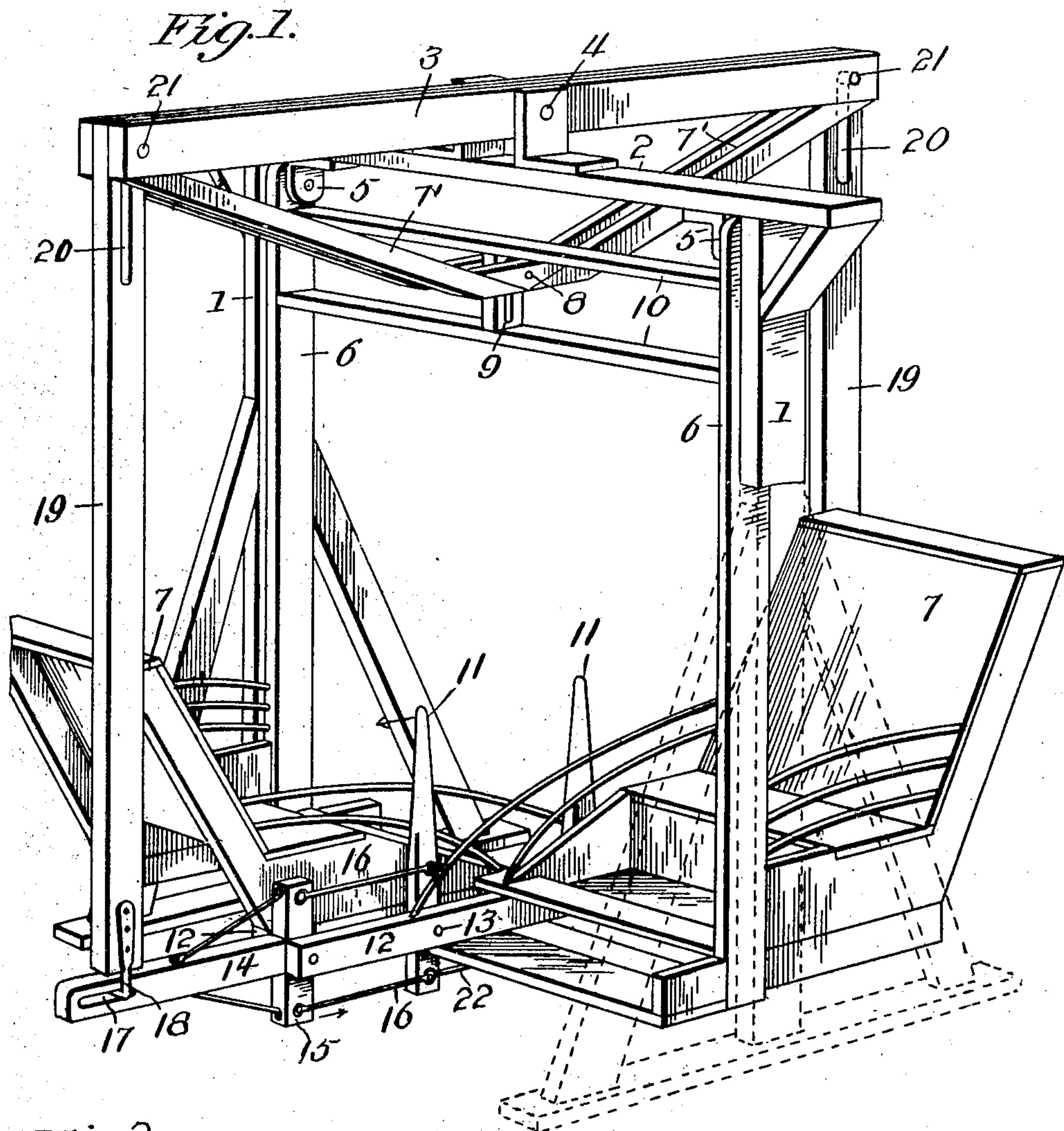


No. 892,664.

PATENTED JULY 7, 1908.

B. INGLISH.
SWING.

APPLICATION FILED NOV. 5, 1907.



UNITED STATES PATENT OFFICE.

BRYANT INGLISH, OF TERRE HAUTE, INDIANA.

SWING.

No. 892,664.

Specification of Letters Patent.

Patented July 7, 1908.

Application filed November 5, 1907. Serial No. 400,833.

To all whom it may concern:

Be it known that I, BRYANT INGLISH, citizen of the United States, residing at Terre Haute, county of Vigo, and State of Indiana, have invented certain new and useful Improvements in Swings, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a swing, and particularly to a structure embodying oppositely disposed seats with operating levers adjacent thereto for actuating the swing.

The invention has for an object to provide an improved construction and arrangement of the pivotal support for the swing seats suspended from a walking beam so as to secure a uniform motion thereof and permit the application of power at such a point as to render the swing of the seats easily effected by the occupants thereof.

A further object of the invention is to provide a novel and improved construction of levers extending from the operating levers to the walking beam for transmitting motion to the opposite ends thereof when either seat lever is actuated.

Other and further objects and advantages of the invention will be hereinafter fully set forth and the novel features thereof defined by the appended claims.

In the drawing:—Figure 1 is a perspective of the swing, and Fig. 2 is a vertical section through the operating levers.

Like numerals refer to like parts in the several views of the drawing.

The numeral 1 indicates a standard or support of any desired character having the cross bar 2 at its upper portion by which the walking beam or lever 3 is pivotally supported in any desired manner, for instance by means of the pivoting standards 4 mounted upon the cross piece. The cross piece is also provided with depending pivoting members 5 to which the hangers 6 carrying the seats 7 are pivotally connected in any desired manner. These seats may be of any preferred character and are secured together to move in unison. The walking beam 3 is provided with the depending truss 7' having the cross pin 8 which extends through a slotted block 9 carried between the cross bars 10 of the seat hangers, and the motion of the beam is thus transmitted to the seats at a point below the pivot of the beam. Power may be applied to this beam in any preferred man-

ner, but preferably by the construction of levers here shown in which the operating levers 11 are pivotally mounted at 13 between the parallel bars 12 adjacent to the seats. These bars also support the T-levers 14, the vertical arms 15 of which are connected with the operating levers 11 at opposite sides of the pivots thereof by means of the links 16, while the extended end of the lever 14 is provided with a slot 17 adapted to receive the connecting members 18 from the vertical rod 19 extending to the walking beam. The upper end of this rod is slotted, as at 20 to embrace the pivotal connection 21 with the walking beam and permit a free upward movement of the rod at one end when the other end of the beam is actuated. The operating levers 11 adjacent to the opposite seats are connected together by a rod 22 pivotally secured to these levers.

With the parts in the position shown in the drawing, when the operating lever at the left is drawn toward the occupant of the seat the connecting rod 19 with the walking beam is drawn downward at that end, while the opposite rod through the connections shown is forced upward thus applying power for actuating or oscillating the seats, and this movement is transmitted to the seat hangers by means of the truss frame connected therewith so as to maintain an even motion of the seats with the minimum power. This construction and arrangement of the actuating levers permits the application of power from either side, and the movement of the lever in either direction is transmitted to the walking beam and side hangers for that purpose. It will therefore be seen that the invention presents a simple, efficient and economical construction and arrangement of parts for the purposes set forth.

Having now described my invention and set forth its merits, what I claim and desire to secure by Letters Patent is:—

1. In a swing, a frame, a hanger pivoted thereon and provided with a seat, a walking beam mounted upon said frame and having a connection extending to said hanger, depending rods from the opposite ends of said beam, and a lever upon said seat operatively connected to each of said rods.

2. In a swing, a frame, a pivoted hanger therefrom provided with a seat, a walking beam mounted upon said frame, a depending connection from the ends of said beam to said

hanger, an operating lever disposed adjacent to said seat, an angle lever connected to said operating lever, and a rod connection from said angle lever to the end of said walking beam.

3. In a swing, a frame, a pivoted hanger therefrom provided with a seat, a walking beam mounted upon said frame, a depending connection from the ends of said beam to said hanger, an operating lever disposed adjacent to said seat, an angle lever connected to said operating lever, and a connecting rod having a slotted connection with said angle lever and an end of said walking beam.

4. In a swing, a frame, a depending hanger therefrom provided with oppositely disposed seats, operating levers pivotally mounted adjacent to said seats, a link connecting said levers at one side of their pivots, a walking beam disposed at the upper portion of said frame and connected to said hanger, and a connection from each of said levers to the end of said beam.

5. In a swing, a frame, a depending hanger therefrom provided with oppositely disposed seats, operating levers pivotally mounted adjacent to said seats, a link connecting said levers at one side of their pivots, a walking beam disposed at the upper portion of said frame and connected to said hanger, T-shaped levers mounted adjacent to said operating levers and connected therewith at opposite sides of the operating lever pivot, and a connection extending from the horizontal arm of said T-shaped levers to the ends of said walking beam.

6. In a swing, a frame, a depending hanger therefrom provided with oppositely disposed seats, operating levers pivotally mounted adjacent to said seats, a link connecting said levers at one side of their pivots, a walking beam disposed at the upper portion of said frame and connected to said hanger, T-shaped levers mounted adjacent to said operating levers and connected therewith at opposite sides of the operating lever pivot, and vertically disposed rods having a slotted connection

with said walking beam and with the outer end of said T-shaped levers.

7. In a swing, a frame, a walking beam pivotally mounted thereon, depending hangers provided with a seat, a slotted bearing supported by cross bars between said hangers, a truss depending from the ends of said walking beam and provided with a cross pin extending through the slot in said bearings, and means adjacent to said seat for operating said walking beam.

8. In a swing, a frame, a walking beam pivotally mounted thereon, depending hangers provided with a seat, a slotted bearing supported by cross bars between said hangers, a truss depending from the ends of said walking beam and provided with a cross pin extending through the slot in said bearings, angle levers pivotally supported upon said seat operating levers connected to the angle levers at opposite sides of the pivots thereof, rods depending from the free ends of the walking beam, and a connection between said rods and said angle levers.

9. In a swing, a frame, a depending hanger provided with a seat, a rock lever pivotally mounted at the upper portion of said frame, depending rods from the opposite ends of said rock lever, operating levers disposed adjacent to said seat, and a connection from said operating levers to exert downward pressure alternately upon the ends of said opposite rods.

10. In a swing, a frame, a depending hanger provided with a seat, a rock lever pivotally mounted at the upper portion of said frame, depending rods from the opposite ends of said rock lever, operating levers disposed adjacent to said seat, and angle levers having a loose connection with the lower end of said rod and connected to the operating lever.

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

BRYANT INGLISH.

Witnesses:

LUCY SWOPE,
A. G. BELDEN.