

W. JOHNSON.

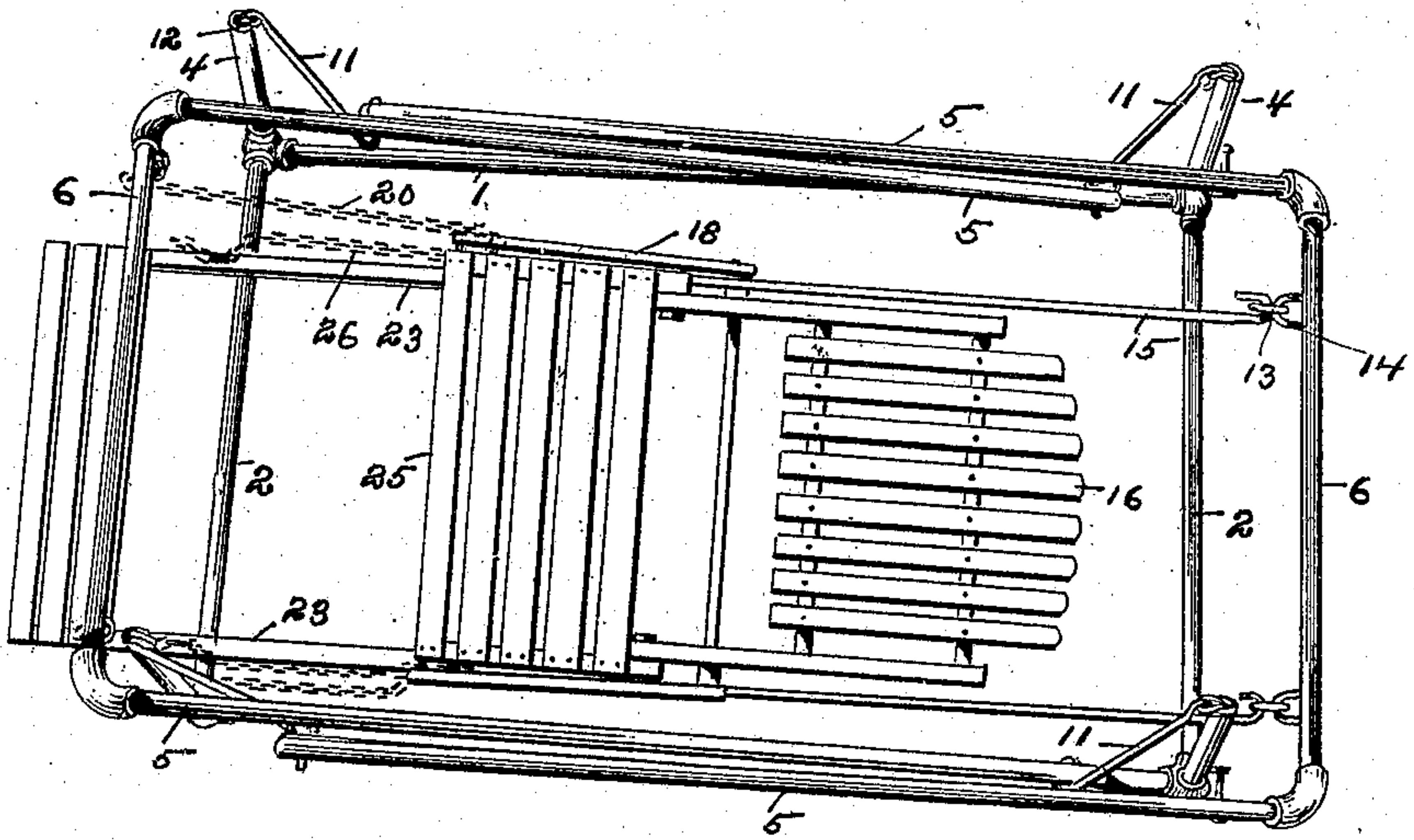
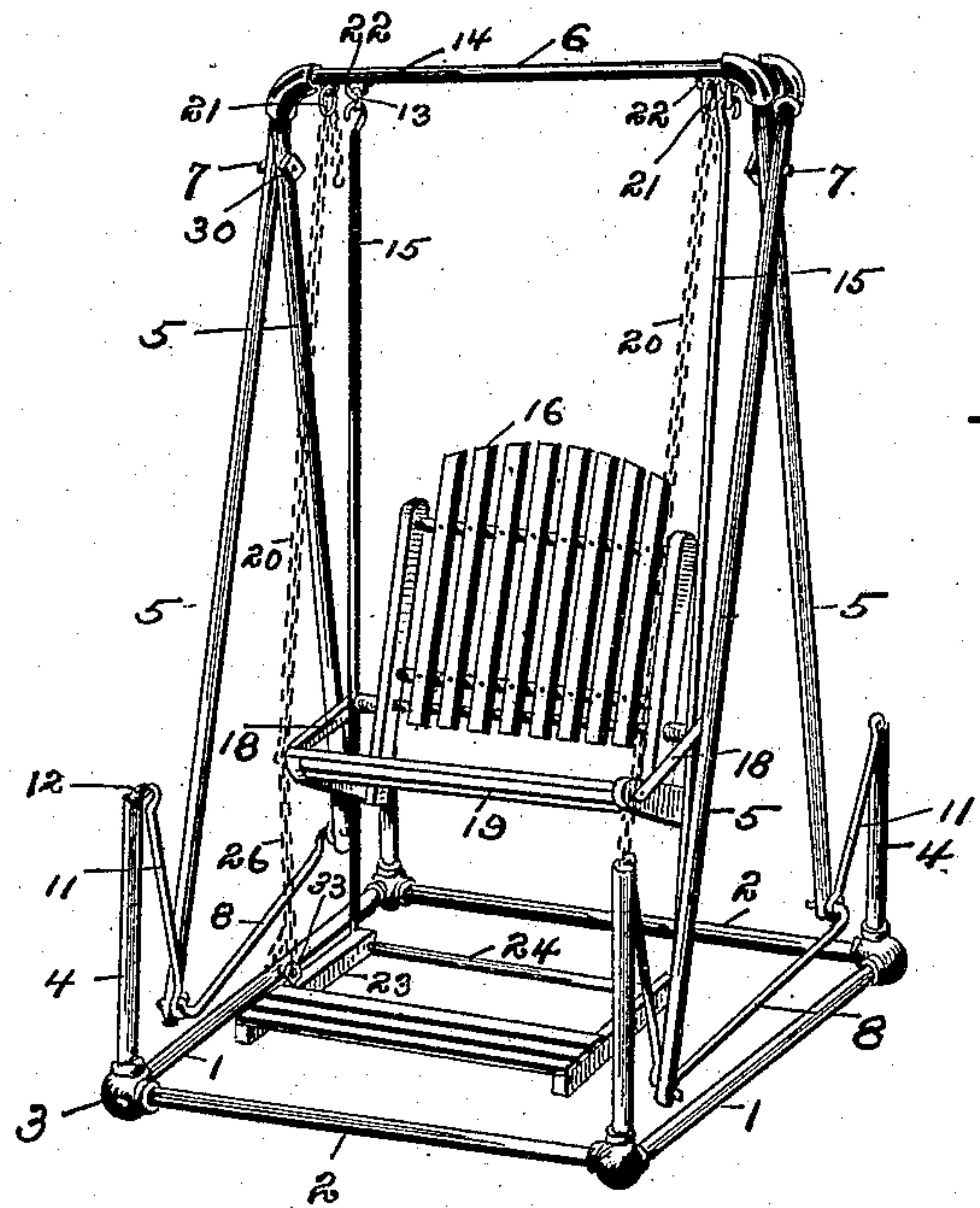
SWING.

APPLICATION FILED JULY 2, 1908.

923,974.

Patented June 8, 1909.

2 SHEETS—SHEET 1.



WITNESSES:

*Flarence H. Mink*  
*Gertrude B. Thayer*

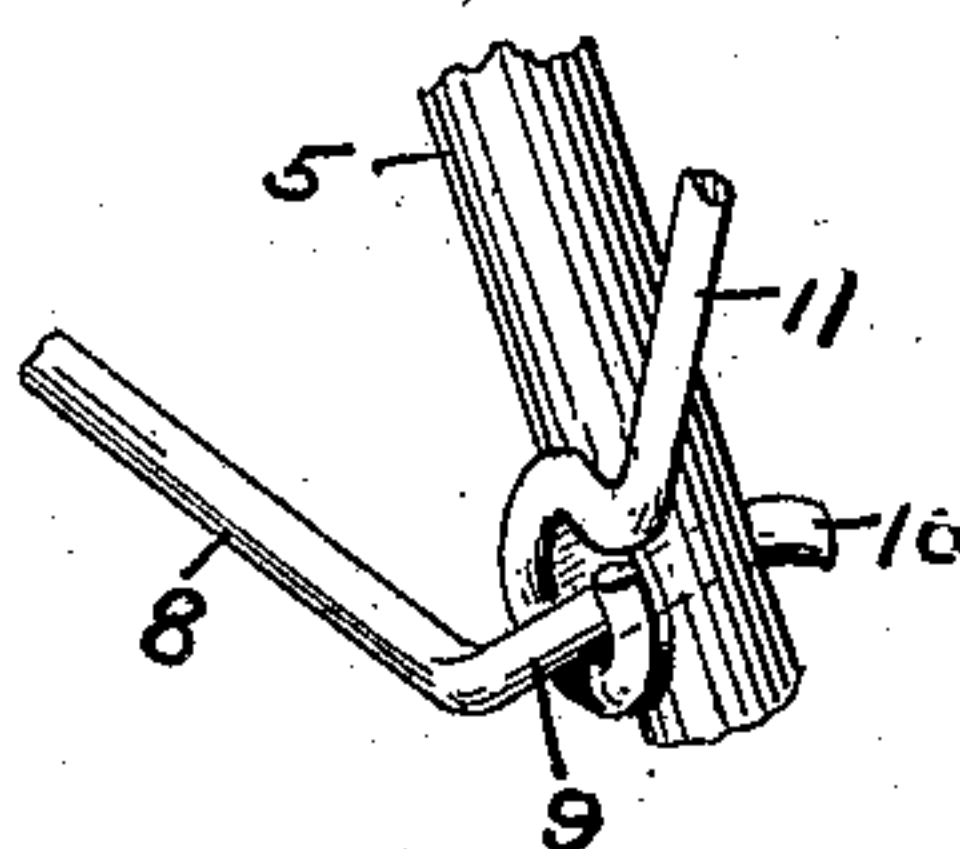
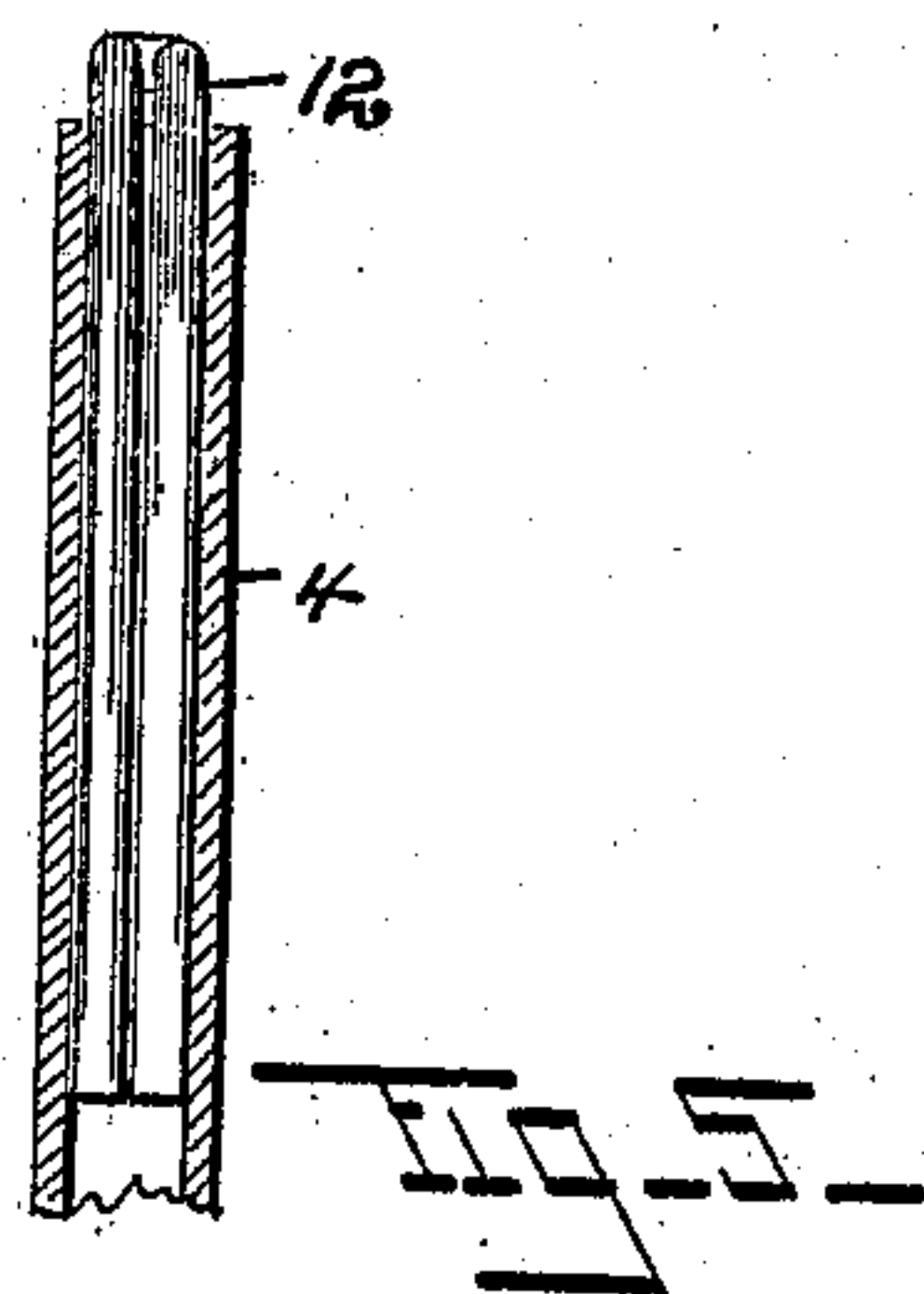
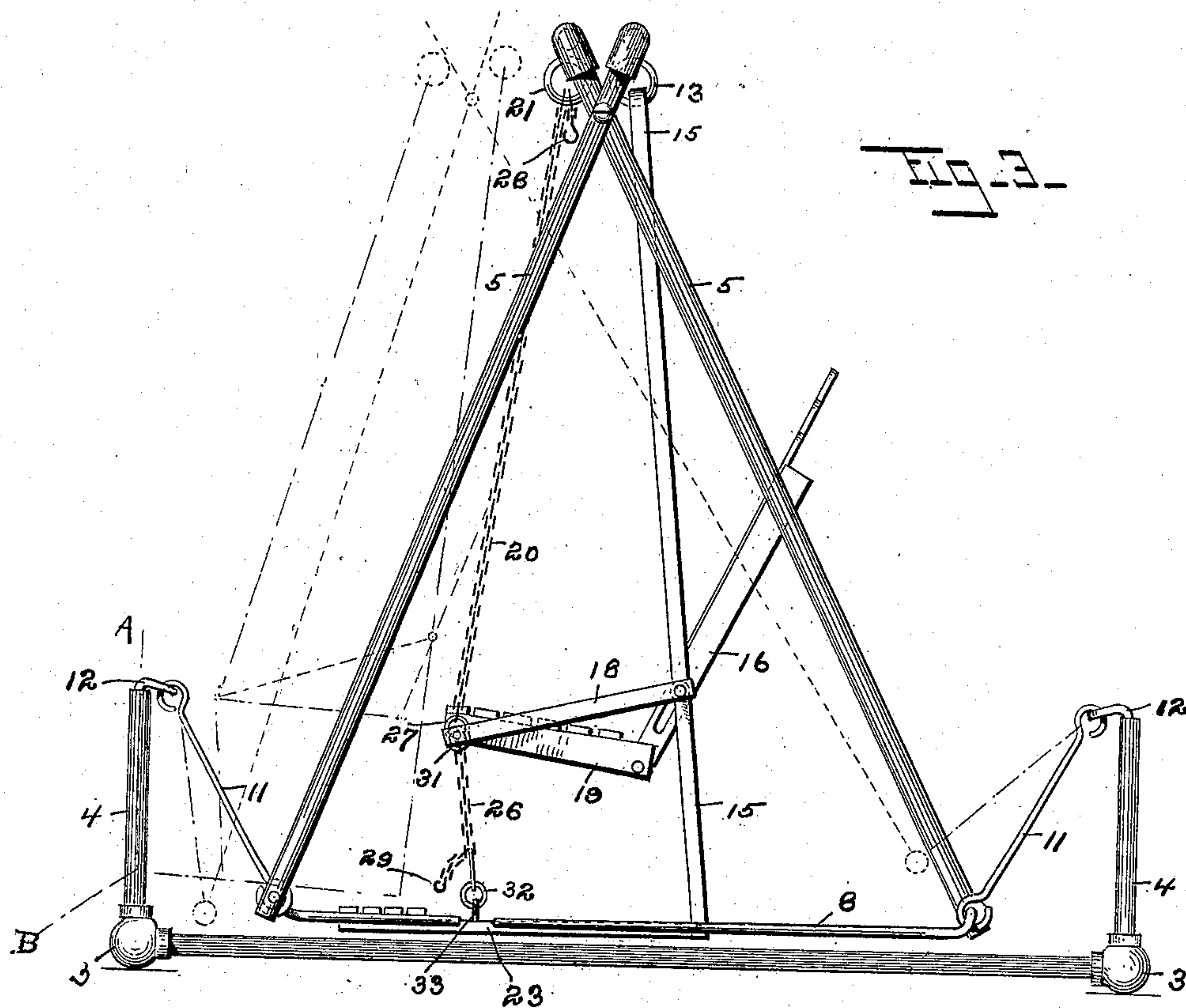
INVENTOR.  
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2 SHEETS—SHEET 2.



WITNESSES:

*Florence H. Monk.*  
*Gertrude V. Brithauer*

INVENTOR.  
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# UNITED STATES PATENT OFFICE.

WALTER JOHNSON, OF MIDDLETOWN, CONNECTICUT.

## SWING.

No. 923,974.

Specification of Letters Patent.

Patented June 8, 1909.

Application filed July 2, 1908. Serial No. 441,644.

*To all whom it may concern:*

Be it known that I, WALTER JOHNSON, a citizen of the United States, residing at Middletown, in the county of Middlesex and State of Connecticut, have invented certain new and useful Improvements in Swings, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to new and useful improvements in swings, and has, for its object, among other things, to provide a collapsible swing that when folded will occupy the minimum amount of space, and when opened the chair will move in substantially a horizontal plane with practically no rise or fall and an easy steady movement, and which will be composed of parts of such simple design and economical structure that the same may be constructed and readily assembled at the minimum cost.

To these, and other ends, my invention consists in the swing, having certain details of construction and combinations of parts, as will be hereinafter described and more particularly pointed out in the claims.

Referring to the drawings, in which like numerals of reference designate like parts in the several figures; Figure 1 is a perspective view of my improved swing open and ready for use; Fig. 2 is a plan view thereof showing the same closed or knocked down; Fig. 3 is a side elevation thereof; Fig. 4 is a fragmentary view of the lower end of the side bars and the parts adjacent thereto; and Fig. 5 is an enlarged sectional view upon line A—B of Fig. 3.

In the practice of my invention I provide a base which is composed of the side bars 1, end bars 2 and elbows 3, within which are secured the posts 4. The swing frame is constructed of the uprights 5 which are joined at their upper ends by the cross bars 6 and pivotally connected with each other by the bolts 7 passing therethrough. These uprights are connected at their lower ends by the tie bars 8 which terminate at each end in the arms 9 which pass through holes in the lower ends of said uprights and bent slightly at their outer ends to form the offsets 10 which prevent the accidental disengagement of the tie bars from the uprights 5, but will not prevent their manual disengagement when moved into proper relative positions. The swing frame is movably connected with the base by the links 11 hav-

ing an eye at both ends, one of which encircles the arm 9 and the other the loop of an eye rod 12 which is preferably made of a single piece of wire bent midway of its length so as to form a loop and inserted within the posts 4.

Suspended from one of the cross bars 6 by the rings 13 and eyes 14 are the rods 15, and connected therewith is the chair back 16, side bars 18 and chair bottom 19, the front end of the chair bottom being supported by the chains 20 having the rings 27 at one end and fixed to one of the cross bars 6 at the other end by the rings 21 and eyes 22.

The foot rest is composed of the bars 23, rod 24, tread strips 25, and chains 26 connected at one end to the rings 31, and at the other end to the rings 32 in the screw eyes 33.

The vertical position of the chair in relation to the bars 6, or of the foot rest in relation to the chair bottom, is variable by reason of the hooks 28 and 29, which are arranged so as to engage the links of the chains 20 and 26 to shorten them if desired.

In Figs. 1 and 3 my invention is shown in its operative position, and motion is imparted to the chair by the occupant thereof through pressure of the feet on the foot rest, as is common in this type of device, the seat swinging upon the uprights and the uprights moving forward and backward by reason of the link connection with the base. The forward position of all of the parts is shown by the dotted lines in Fig. 3. The movement of the parts, that is, the swing upon the uprights, and the uprights upon the base, give an easy exhilarating motion in almost a straight line instead of moving in the arc of a circle, as is common in swings of this general type. All connections of the moving parts in my invention are such as to reduce the friction to a minimum, and have the effect, and all of the advantages, of roller bearings.

In Fig. 2 my invention is shown in its folded position, which it assumes by unscrewing the nuts 30 from the bolts 7 and then withdrawing said bolts from one of the uprights. All of the parts comprising the base and uprights are preferably constructed with ordinary iron pipe and the elbows are those commonly used for pipe connections, hence the swing can be made at the minimum cost, as none of the parts are special or require an unusual amount of labor.

There are minor changes and alterations



that can be made within my invention, and I would therefore have it understood that I do not limit myself to the exact construction herein shown and described, but claim all  
5 that falls fairly within the spirit and scope of my invention.

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

10 1. In a swing, the combination with the base member; of companion uprights pivotally connected with each other at their upper ends and held apart at their lower ends by a tie bar; a link connection between the lower  
15 ends of said uprights and base member; and a chair movably connected with the upper ends of said uprights.

20 2. In a swing, the combination with a base member; of uprights having a separable pivot connection with each other near one

end; a tie bar uniting said uprights at the other end; a link connection between the lower end of said uprights and said base member; and a chair having a swinging connection with said uprights. 25

3. In a swing, the combination with a base member having eye rods connected therewith; links connected with said eye rods; tie bars connecting said links; uprights  
30 mounted on said tie bars at one end having a separable pivot connection with each other at their other end; and a chair having a swinging connection with said uprights.

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

WALTER JOHNSON.

Witnesses:

GEORGE E. HALL,  
FLORENCE H. MONK.