Feb. 7, 1939. S. W. ZIPPLER 2,146,045

AMUSEMENT SWING

Filed July 2, 1936 2 Sheets-Sheet 1

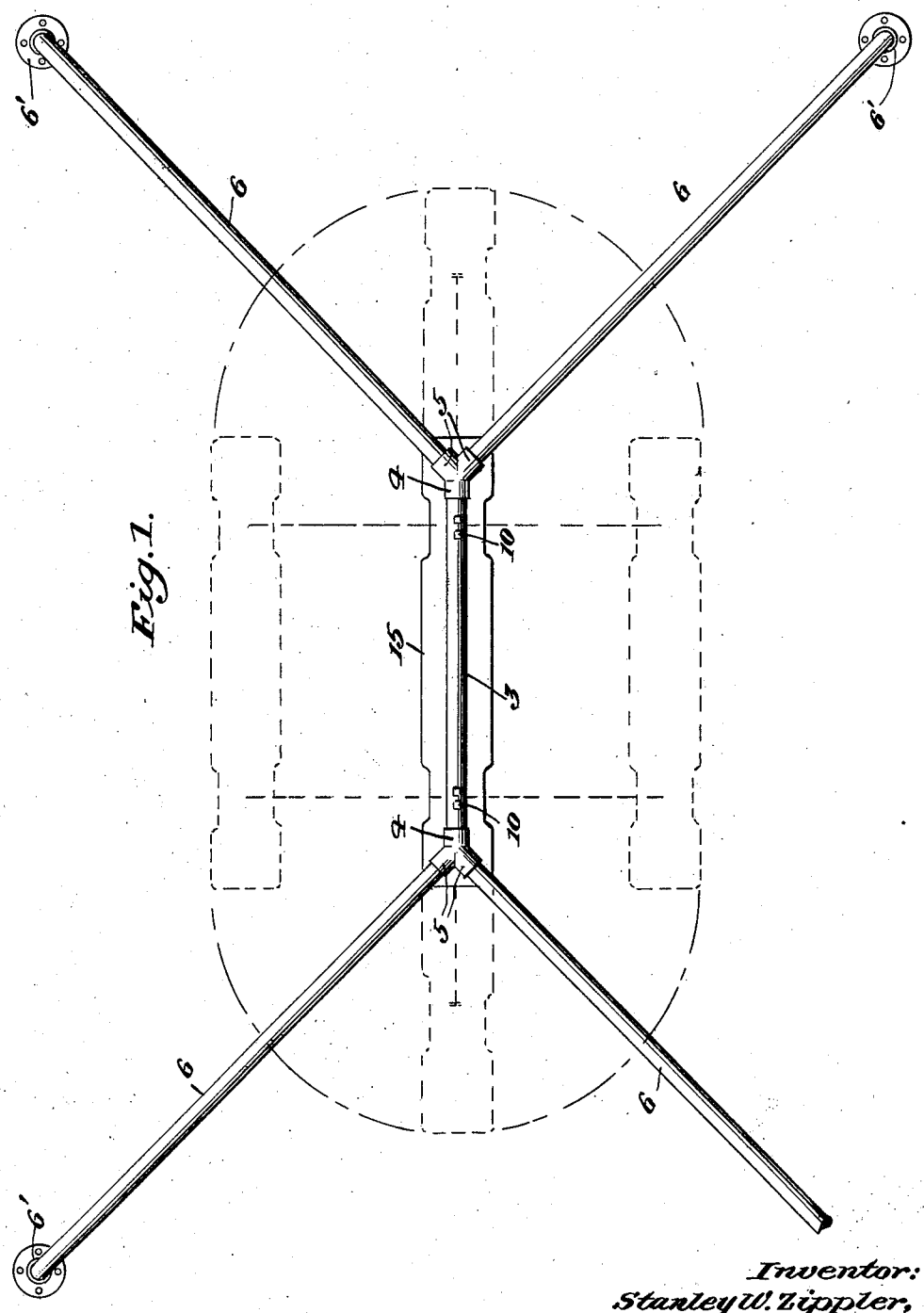

Fig. 1.

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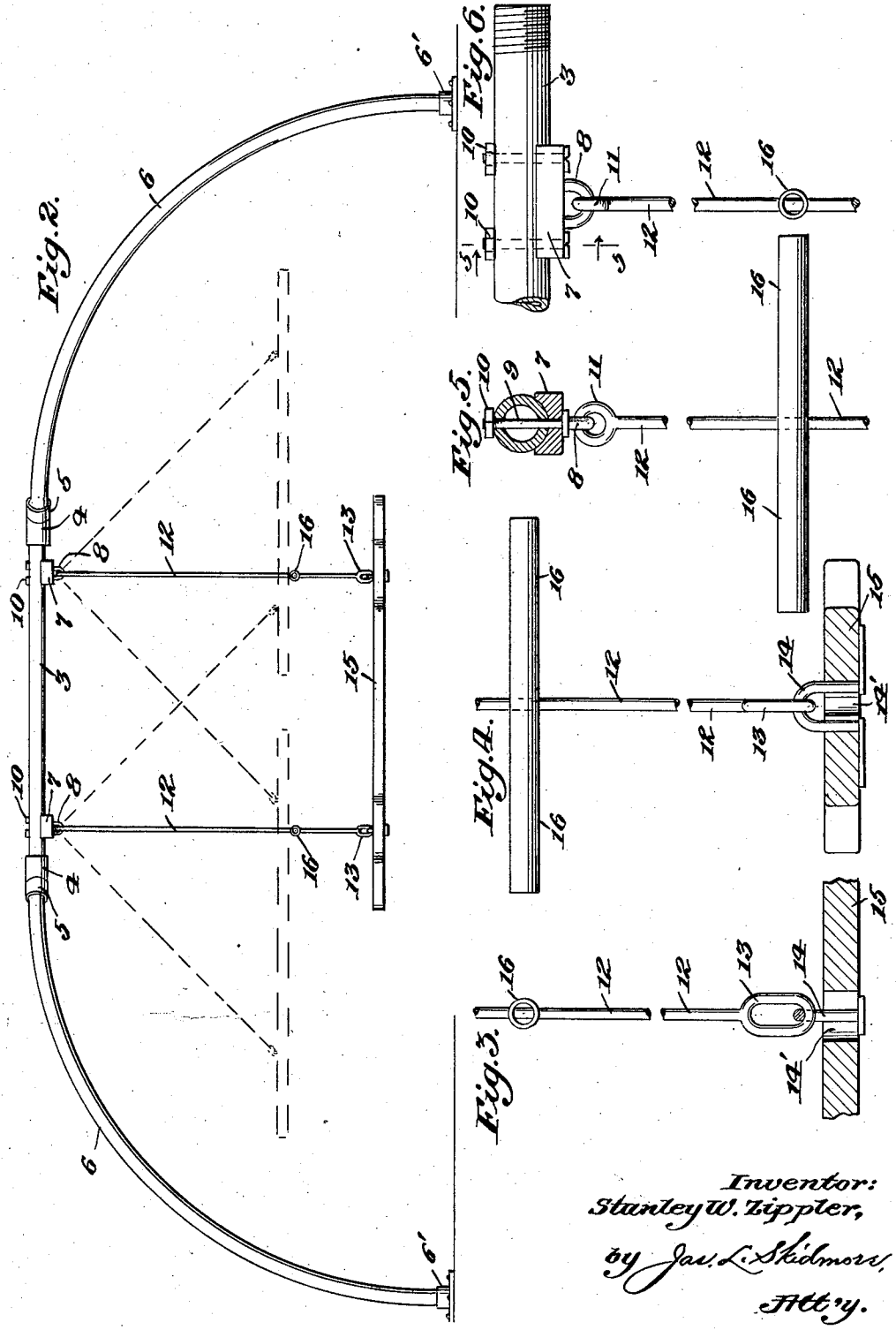

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UNITED STATES PATENT OFFICE

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AMUSEMENT SWING

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Application July 2, 1936, Serial No. 88,646

3 Claims. (Cl. 155—58)

This invention pertains to new and novel improvements for amusement swings, and is especially constructed and designed for use as a lawn swing, and also to be installed in any desirable location where freedom of its operation is sufficient.

The prime object of the invention is to provide a simple, economical, durable, practical and thoroughly efficient swing that is capable of imparting various swinging movements and thereby materially increasing the pleasure and amusement of its occupants.

Another object of the invention is to provide a swing which is easy and smooth in operation, can be readily and quickly installed and safely utilized for the purposes set forth.

A further object of the invention is to provide a swing having an elongated seat adapted to accommodate a plurality of children or adults, said seat being so connected that various kinds of movements may be easily imparted thereto by its occupants.

The foregoing and such other objects as may appear from the ensuing description are accomplished by the construction, arrangement, location and combination of the several parts hereinafter more fully described, illustrated by the accompanying drawings, and particularly pointed out in the claims appended hereto, it being understood that slight changes in the precise form, proportions and minor details of the construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the accompanying drawings forming a part of this specification it will be seen that:

Figure 1 is a plan view of the swing supporting structure, showing by dotted lines the seat to which some of the various motions are imparted by its occupants.

Figure 2 is a side elevation of the means embodying my invention.

Figure 3 is an enlarged detail, showing in longitudinal section a portion of the seat broken away and in elevation partly broken away the seat supporting means.

Figure 4 is an enlarged end elevation of a portion of the seat supporting means and the hand operating rod, showing one of the seat supporting rods broken away and a portion of the seat in cross-section.

Figure 5 is an enlarged cross-section taken in the plane of the dotted lines 5—5, Fig. 6, looking in the direction of the arrows, and showing in elevation one of the main bars or rods for supporting the seat broken away and the hand operating rod connected thereto, and

Figure 6 is an enlarged side elevation, showing a portion of the main swing supporting tube broken away and means for securing one of the main bars or rods for supporting the seat broken away with the hand operating rod secured thereto.

In the embodiment of my invention as illustrated it will be seen by reference to Figs. 1 and 2 of the drawings that the supporting structure to which my novel swing is suspended consists of a plurality of metal pipe sections or tubing of suitable size and possessing the requisite strength, and to the horizontally arranged section disposed a suitable distance above the ground and designated by the numeral 3 is fixedly secured a Y-fitting or coupling 4 at each end thereof, and to the bifurcated end portions 5 of each of said fittings 4 is fixedly secured diverging sections 6 each extending radially outwardly with a curved or arched formation and terminating with a base portion 6' which is fixedly secured or anchored to any suitable or desirable anchorage that properly serves the required stability for the purpose intended.

Intermediate the ends of the horizontal section 3 at a suitable distance apart are fixedly secured two metal castings or members 7, each formed with a curved or semicircular upper face adapted to be snugly seated against the correspondingly formed lower face of the said section 3, and each casting 7 having an integral downwardly extended member 8 forming a loop for the purpose hereinafter described, and vertically disposed openings are formed through each of the castings or members 7 for the reception of suitable securing bolts 9 provided with securing nuts 10, and to each of the said members 8 is pivotally secured the upper end eye portion 11 of the main swinging bars or rods 12, each of said bars or rods being formed with an elongated opening formation 13 at its lower end for the reception of the upper looped portion of a steel member 14 that is passed through a suitable opening 14' formed through the seat 15 intermediate the ends of the seat, each member 14 being provided with integral oppositely disposed lateral extensions forming its lower end and seated tightly against the lower face of the seat so that it is not possible for the escape of the members 14 upwardly through the opening 14' formed through said seat.

It will be seen that each of the seat supporting bars or rods 12 is provided with a handhold mem-

ber 16 fixedly secured thereto transversely thereof, said member 16 being fixedly secured thereto by welding or other suitable means and extending a suitable distance from the opposite sides of each rod 12 and within easy reaching distance of the swing occupants, said member 16 serving the purpose of allowing the occupants to manipulate the swing and impart at will the type of motion desired and shift the motion from one kind to another until all of the various motions desired shall have been made to increase their amusement and pleasure.

It will be readily perceived that any one of the occupants of the swing seat can, by the proper manipulation of the hand member fixedly secured to each of the rigid rods or bars, impart various motions and movements of the seat, such as horizontal, circular, whirling, gyratory, oval and oscillating, thereby creating much more enjoyment, amusement and pleasure than is obtained by the ordinary lawn swing usually employed for the use by adults and their children.

It will be understood that any suitable material possessing the required strength may be employed in the construction of the several parts of my improved swing, and the dimensions of the parts may be varied to suit the conditions and the particular use for which it is intended.

Further, it will be obvious that, instead of the long swinging bars or rods 12, each having an eye at its upper end and an elongated opening at its lower end, connected with suitable means to permit imparting of the various motions herein referred to, said bars or rods may be connected at either end with a ball and socket or other type of universal joint such as will allow the said motions to be imparted, and the swinging means hereinbefore described is adapted to any suspension where full freedom of operation is sufficient.

By the simple construction and arrangement hereinbefore described it will be readily evident that the several parts may be quickly and easily assembled, or disconnected, and in event that any part or member thereof should become damaged, or repair is required, a new part can be promptly substituted.

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

1. An amusement swing of the character described, comprising a tubular stationary support, a metallic casting rigidly secured to each end portion of the support, each casting having a centrally disposed member depending therefrom to which is loosely connected a rigid rod, each rod having a handle rigidly secured thereto and extended from each side thereof, a seat loosely connected to said rigid rods at their lower ends, each of said rods being loosely connected to a seat supporting member above said seat, each seat member having a portion passing through openings centrally formed through the seat intermediate its ends, said loosely connected parts forming universal joints and jointly coacting for imparting gyratory, billowy, whirling, circular, oscillating and other motions to the seat and its occupants when said handle is properly manipulated by one of the occupants.

2. In an amusement swing of the character described, comprising a tubular stationary support, a casting rigidly secured at each end to each end portion of the tubular support, said casting having a concaved upper face embracing the lower face only of the support, a centrally disposed downwardly extended member formed integral with each casting, a rigid metal depending rod loosely connected to and suspended from each member, an elongated seat formed with two openings formed centrally therethrough intermediate its length for the reception of metallic seat supporting members, each of said seat members having its central portion projected above the seat to which the lower end of each rigid rod is loosely connected, and a handle member fixedly secured to each rigid depending rod, said loosely connected parts forming universal joints and jointly cooperating to produce gyratory and other various amusing motions to the said seat and its occupants when either handle is properly manipulated by any of the occupants of the seat.

3. A swing of the character described, comprising a stationary centrally disposed tubular support, a casting fixedly secured to said support near each end portion thereof, a centrally disposed depending member forming a part of the casting, a pair of rigid metal rods, each loosely connected from its upper end to one of said members and loosely connected to a seat supporting member at its lower end above the seat, each seat member having its upper central portion projected above the seat through an opening disposed centrally through the seat, and the transversely disposed lower portions seated in contact with the lower face of the seat, and a handle rigidly secured to each of said rigid rods, said loosely connected parts forming universal joints and serving to impart unobstructed gyratory, billowy, whirling, circular, and various other motions to the seat and its occupants when said handle is properly manipulated by one of the occupants.

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