(No Model.) 2 Sheets—Sheet 1.

J. S. LEACH.

SWING.

No. 544,734. Patented Aug. 20, 1895.

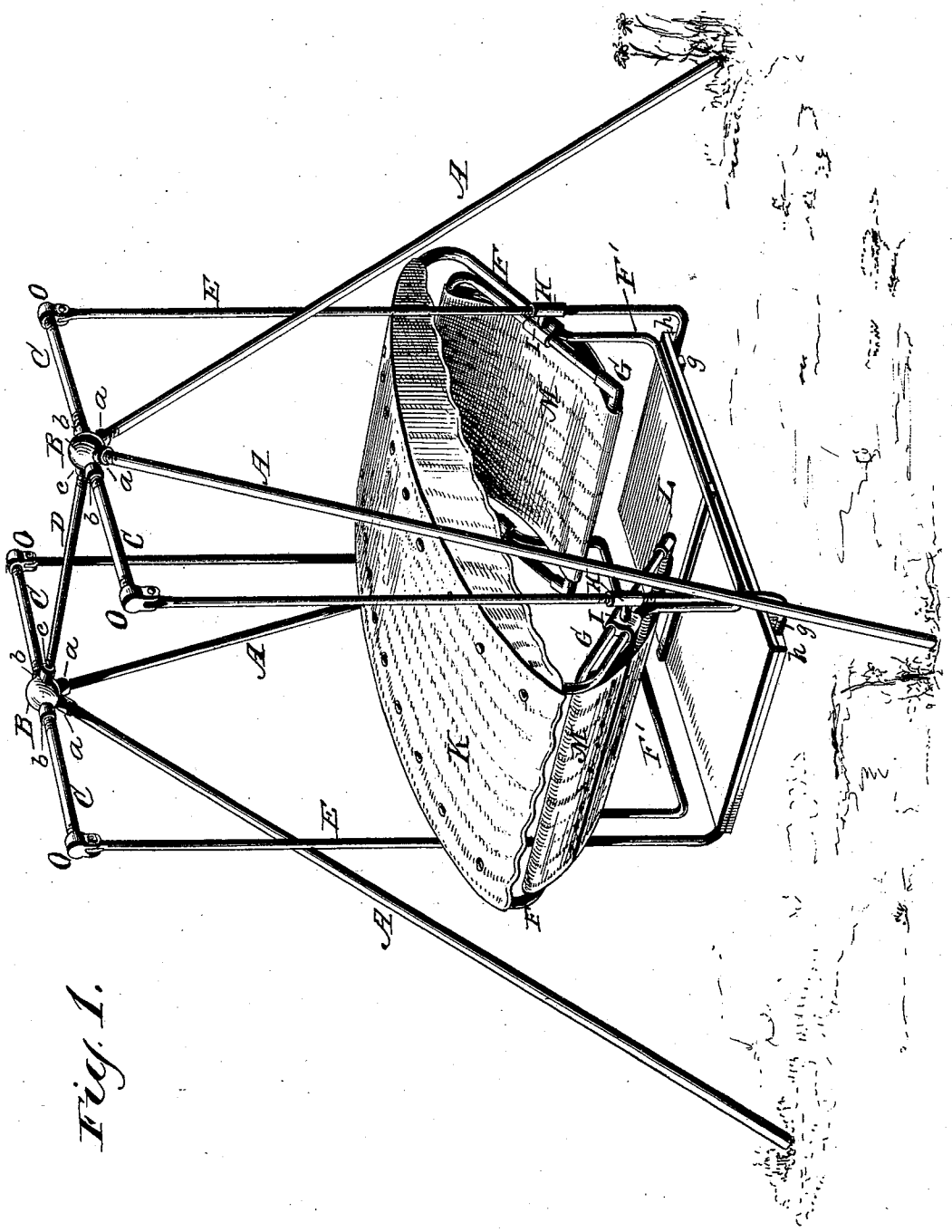

Fig. 1.

Witnesses
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Attorney

(No Model.)

2 Sheets—Sheet 2.

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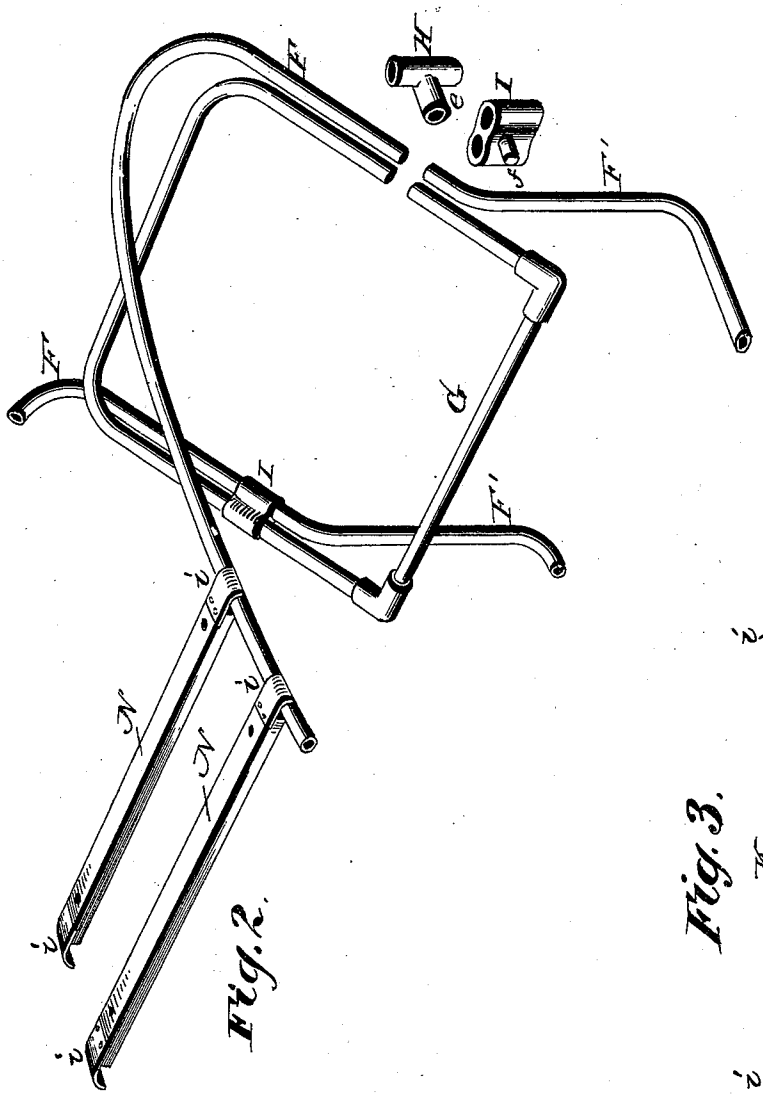

Fig. 2.

Fig. 3.

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UNITED STATES PATENT OFFICE.

JOHN S. LEACH, OF HARTFORD CITY, INDIANA.

SWING.

SPECIFICATION forming part of Letters Patent No. 544,734, dated August 20, 1895.

Application filed November 30, 1894. Serial No. 530,371. (No model.)

To all whom it may concern:

Be it known that I, JOHN S. LEACH, a citizen of the United States, residing at Hartford City, in the county of Blackford and State of Indiana, have invented certain new and useful Improvements in Swings; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon.

The present invention has for its object to provide a swing that will possess strength and lightness and have increased durability, and one that may be conveniently and readily taken apart for the purpose of packing and transporting or for the economy of space when not required for use.

The invention consists in a swing constructed substantially as shown in the drawings and hereinafter described and claimed.

Figure 1 of the drawings is a perspective view of the complete swing when set up for use; Fig. 2, a detail view in perspective of one of the seat-frames and a portion of the canopy-frame, the couplings, and the slats to which the canopy is attached. Fig. 3 is a transverse section through the canopy and its frame.

In the accompanying drawings, A represents the standards, which have their upper ends screw-threaded to engage with interior screw-threaded nipples *a* upon a coupling B. These couplings have screw-threaded nipples *b* to receive the screw-threaded ends of supports C, and the couplings are connected to each other by a transverse brace D, which brace has its ends screw-threaded to engage with interior screw-threaded nipples *c* of the coupling B.

The several parts above described constitute the stationary part of the frame that supports the swing proper, the standards A extending out at an angle.

The couplings B, with their several nipples, form a very simple and durable means of connecting the standards, the transverse supports, and the brace hereinbefore described, and the several parts may be disconnected from the couplings with comparatively little trouble when it is desired to take down the swing, and may be set up in place with equal facility.

The pendulum-frames E are of U shape and have their ends pivotally connected with the ends of the supports or by any other preferred means found most desirable. A suitable coupling provides means for connecting the canopy-frames F and the seat-frames G to the pendulum-frames E, which coupling consists of two detachable sections H I, connected together by the tubular socket *e*, slipping over the stud *f* on the respective sections, thereby enabling the sections to be readily separated. The pendulum-frames E are made in sections and have their inner ends screw-threaded to engage with the coupling-sections H, as shown in Fig. 1 of the drawings. The canopy-frame F has its lower portion F′ made separate from the upper portion, and these are connected together by the coupling-section I, which also connects the sections of the seat-frame G, as shown more clearly in Fig. 2 of the drawings. The lower portions of the pendulum-frames E form supports for the foot-rest L, which may be of any desirable construction. Upon the under side of the foot-rest are cleats *g h*, extending transversely thereof and at its ends, to receive between them the horizontal portion of the pendulum-frames E, whereby the foot-rest is prevented from slipping off the frames. Upon the upper side of the foot-rest L is a transverse stop for the feet to rest against in giving momentum to the swing.

The seat-frames G are disposed at a suitable angle and have detachably connected thereto coverings M of canvas, oil-cloth, matting, carpet, or of any other desirable material, said covering being secured around the frame by hooks and eyes, buttons, or other like fastenings.

The canopy K is of any light material usually employed for the purpose and is connected to transverse slats N, which have curved plates *i* at their ends to hook over the top of the frames F, whereby the canopy may be held in position on the frames.

The several metal portions of the swing, consisting of the standards and their connections, the pendulum-frames, the seat-frames,

and the canopy-frames, are preferably constructed of hollow or tubular rods rods to obtain lightness with the necessary strength.

The swing as it is constructed may be operated by the feet, and the facility with which the several parts may be disconnected and separated for the purpose of packing and storing, or to economize in space when transporting from place to place, in addition to its lightness and durability, renders the swing more acceptable to those requiring such a device.

To better facilitate disconnecting the pendulum-frames E from the supports C, said supports at their ends are screw-threaded, by which suitable hangers O are detachably connected thereto and the ends of the pendulum-frames pivoted to these hangers, thus enabling the frames and supports to be separated.

The coverings for the seat-frames extend around both sides thereof and their meeting edges, are detachably connected together. Extending the covering completely around both sides of the seat-frame, and not attaching the covering directly to the frame by fastenings, enables the covering to be moved upon the frame to adjust itself and prevents the possibility of its tearing from its fastenings, as would be the case were the covering secured directly to the frame by tacking.

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

1. In a swing, a supporting frame consisting of couplings having a plurality of screw-threaded tubular nipples, a transverse brace detachably connecting the couplings together, supports and standards detachably connected to the couplings, sectional seat-frames, sectional canopy-frames, and sectional pendulum-frames, and couplings for detachably connecting the frame sections together, substantially as and for the purpose set forth.

2. A swing, consisting of a suitable supporting frame, pendulum frames, seat frames, and canopy frames, the several frames being constructed in sections and detachably connected together by couplings, suitable coverings loosely extending around the seat frames, and a flexible covering for the canopy frame having transverse slats secured thereto and curved plates upon the ends of the slats to engage with the canopy frame, substantially as and for the purpose described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN S. LEACH.

Witnesses:
HARVEY W. KEITH,
ALLEN M. WALL.