

D. B. HUBBARD.
Swing.

No. 203,049.

Patented April 30, 1878.

Fig. 1.

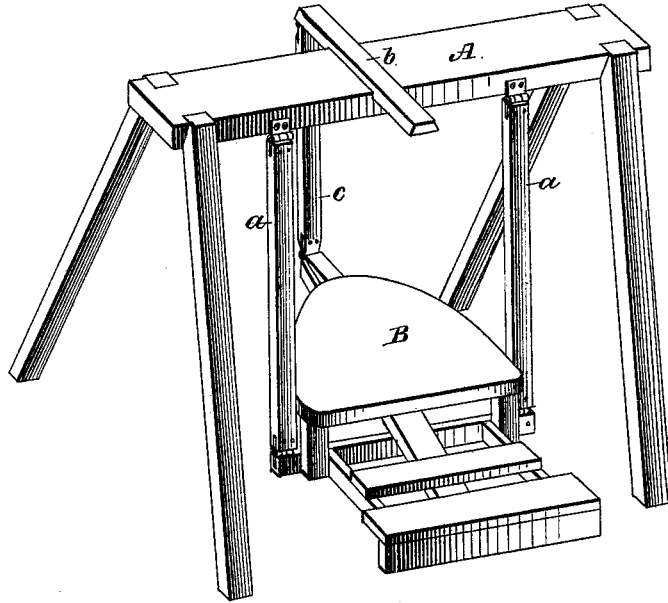
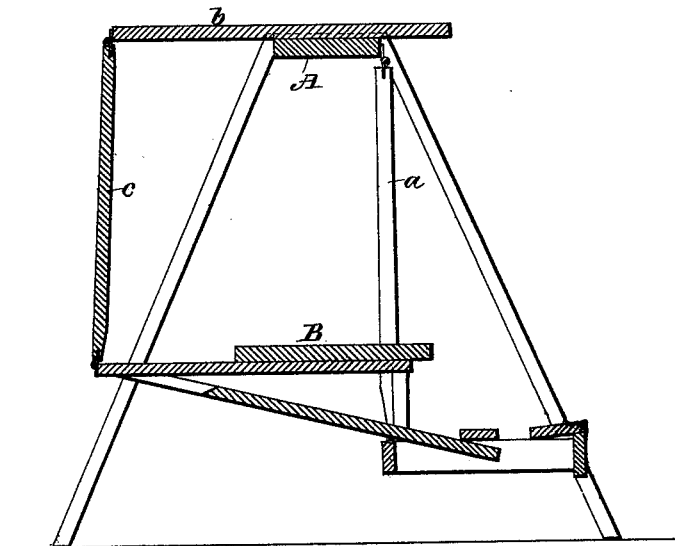


Fig. 2.



Attest.

Hepturn M. Glue
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DAVID B. HUBBARD, OF WILLIAMSPORT, PENNSYLVANIA.

IMPROVEMENT IN SWINGS.

Specification forming part of Letters Patent No. **203,049**, dated April 30, 1878; application filed April 28, 1877.

To all whom it may concern:

Be it known that I, DAVID B. HUBBARD, of Williamsport, Pennsylvania, have invented certain Improvements in Swings, of which the following is a specification:

The object of my invention is to form a cheaper, more convenient, and comfortable swing for pleasure and exercise than found heretofore.

My improved swing is illustrated in the accompanying drawings as follows: Figure 1 is a perspective view, and Fig. 2 a vertical section.

The swinging suspending-bars, marked *a a*, are hinged to the frame A, carrying the seat B by a yielding joint. At the top of the said frame A is a beam projecting to the rear of the swing, marked *b*, from the extremity of which is suspended, by hinge, a rod, *c*, which rod is at the lower extremity joined to a bar or arm extending to the rear of the platform of the seat B, such arm being so united by a

loose joint to the governing-rod *c* as to allow the adjustment of the foot-rest by the person using the swing.

It will be evident that the bars *a a* support the weight of the person on the swing, while the beam *b*, being adjustable, regulates the governing-rod *c*, so that its adjustment at its lower extremity regulates the position of the seat while in motion.

Having described my invention, what I claim as new is—

1. The combination of the suspending-bars *a a*, adjusting-bar *b*, governing-rod *c*, with the seat B, substantially as specified.

2. The suspending-bars *a a*, adjusting-bar *b*, governing-rod *c*, and seat B, in combination with the supporting-frame A, substantially as specified.

DAVID B. HUBBARD.

Witnesses:

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words