

(No Model.)

W. DAVIS.
HOBBY HORSE.

No. 381,116.

Patented Apr. 17 1888.

Fig. 1.

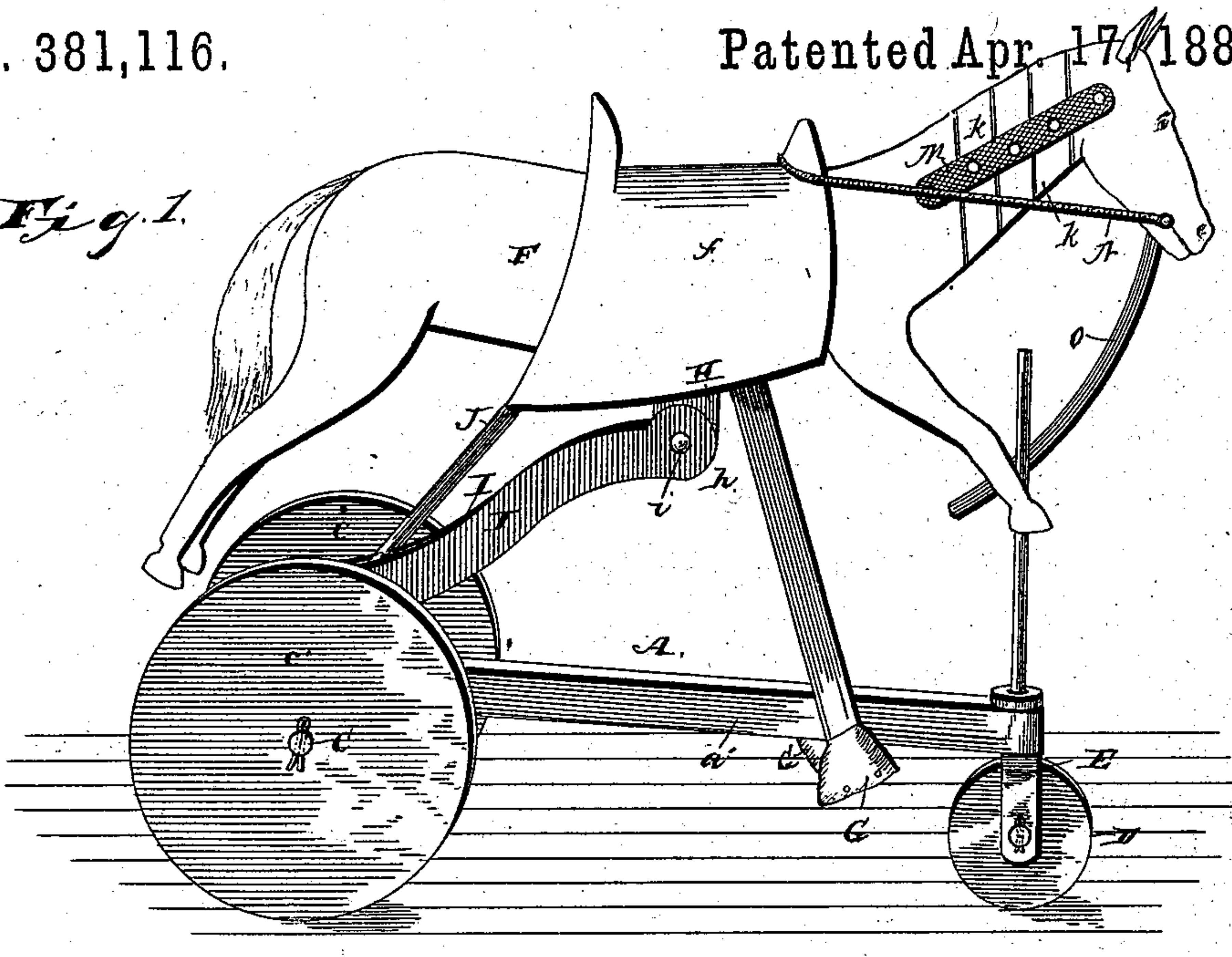


Fig. 2.

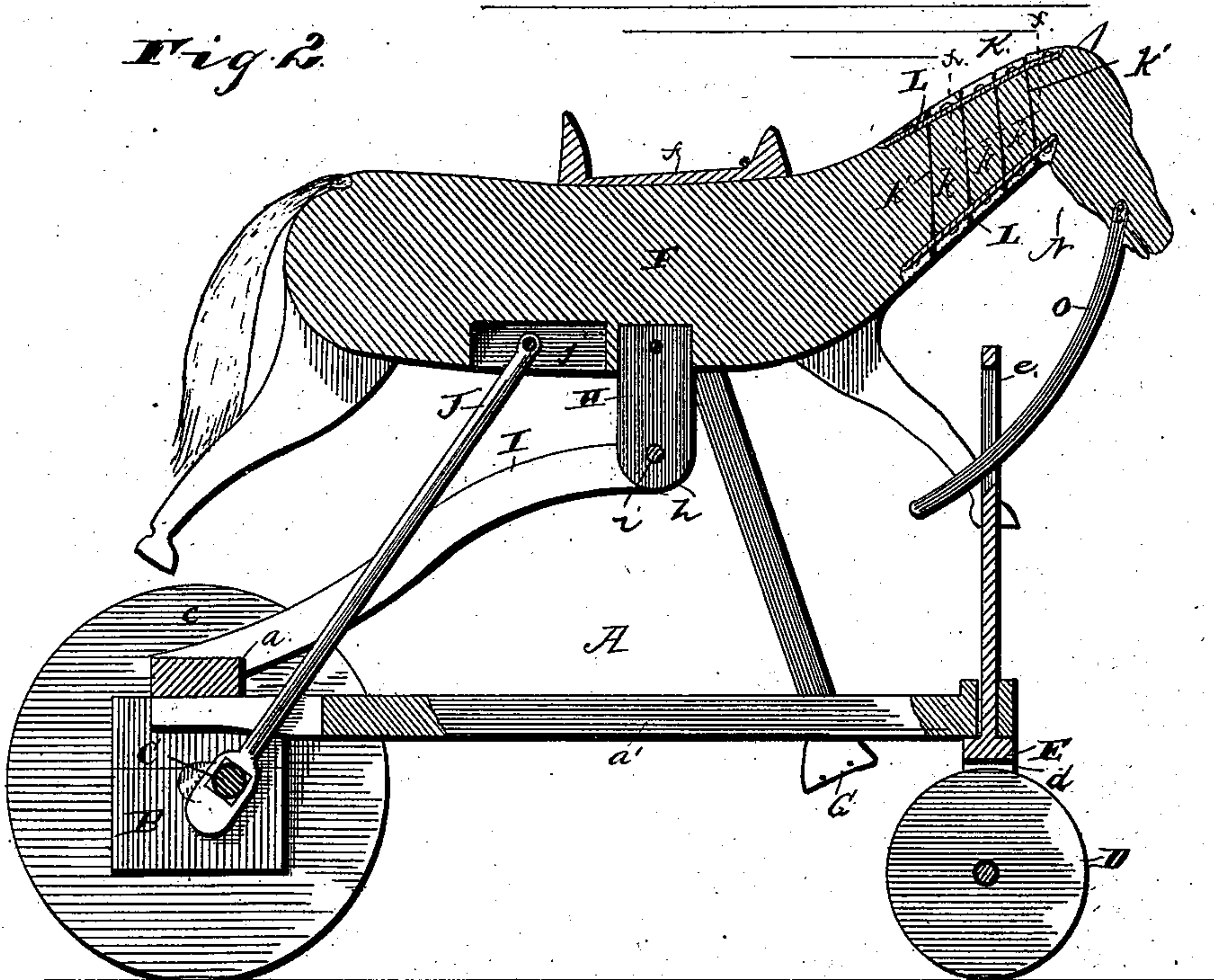
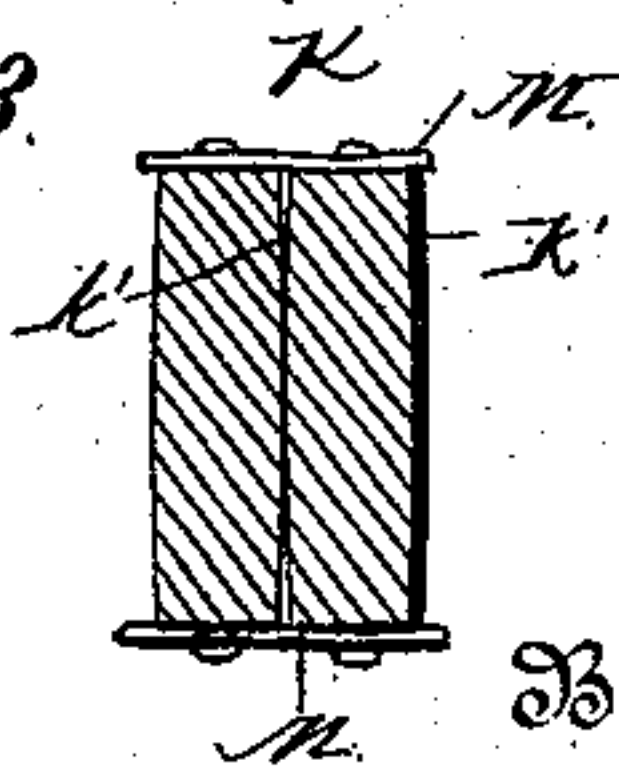


Fig. 3.



Witnesses

Geo. H. [unclear]
John H. Diggers,

Inventor.

Willis Davis.

By his Attorneys.

C. A. Snowden

UNITED STATES PATENT OFFICE.

WILLIS DAVIS, OF WOODSTOCK, NEW YORK, ASSIGNOR OF ONE-HALF TO
ABRAM D. ROSE, OF SAME PLACE.

HOBBY-HORSE.

SPECIFICATION forming part of Letters Patent No. 381,116, dated April 17, 1888.

Application filed November 23, 1887. Serial No. 256,001. (No model.)

To all whom it may concern:

Be it known that I, WILLIS DAVIS, a citizen of the United States, residing at Woodstock, in the county of Ulster and State of New York, have invented a new and useful Improvement in Hobby-Horses, of which the following is a specification.

My invention relates to improvements in hobby-horses, the object being to provide a toy of the kind that will be caused to rock by moving it longitudinally, and which the rider can easily guide to either side; and it consists in the construction and novel combination of parts, hereinafter described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 represents a perspective view of the device. Fig. 2 represents a central longitudinal section of the same. Fig. 3 represents a detail horizontal section on the line *x x* of Fig. 2.

Referring to the drawings by letter, A designates the truck, composed of the rear transverse bar, *a*, and the longitudinal bar *a'*, extending forward from the central part thereof.

B B are bearing-blocks secured to and depending from the ends of the bar *a*, and provided with suitable bearings for the crank-axle C.

c c' are the main or conveying wheels, the former of which is fixed to the crank-axle outside the corresponding bearing-block, while the latter turns loosely on the opposite end of said axle.

D is the guide-wheel journaled in the enlarged and bifurcated lower end, *d*, of the vertical guide-standard E, which has a bearing above its enlarged part in the longitudinal bar *a'*, near the front end thereof, and which is provided near its upper end with a longitudinal slot, *e*, for a purpose hereinafter explained.

F is the body of the horse with the legs attached, and having secured upon it a saddle, *f*, which may be a side saddle if the toy is to be used by girls.

G G are the stirrups of any desired style, and secured to the outer sides of the lower ends of the stirrup-straps, which are preferably of wood and have their upper ends secured at

proper and opposite points to the sides of the horse.

H is a projection depending about centrally from the body of the horse, and cut away and perforated near its end to form the inner portion of a hinge-joint, *h*, the outer portions of which are formed by the arms I I, having their lower rear ends secured to the bar *a* of the truck and their upper front ends rounded to fit on each side of the reduced portion of the projection H. The said rounded ends are perforated, the perforations being aligned with that of the said projection, so that the hinge-joint can be completed by the pin *i*.

J is a pitman having its upper end pivoted in a recess, *j*, in the body near the rear end thereof. The said pitman passes downward and rearward between the arms I, and has its lower end journaled upon the crank of the axle, so that the rotation of the latter will rock the horse on the joint *h*.

The upper portion of the neck, K, of the horse is composed of the transverse sections *k*, each of which is beveled outwardly from its vertical line on both sides and on both faces, as at *k'*, to permit the sections to turn laterally on each other. The said sections are connected together, and to the head and remaining portion of the neck, above and below in the central vertical plane by the non-elastic cords L L, so that the sectioned portion of the neck can swing laterally.

M M are elastic strips, preferably of rubber, which connect the neck and head on each side, midway between the non-elastic strips, and N is a bridle, by means of which the rider can pull the head to either side, bending the sectioned portion of the neck. When the bridle is released, the elastic strips cause the neck to assume its normal straight position.

O is a curved guide-bar secured to the under surface of the head of the horse and passing through the slot *e* in the standard E, so that when the horse's head is turned to one side by the rider the said standard, and consequently the guide-wheel D, is similarly turned, and the course of the device directed as desired.

The rotation of the wheel *c* turns the crank-axle, and by means of the pitman rocks the

horse, while the loose wheel *c'* permits the device to turn more readily and quickly. However, if the toy is very large, both wheels may be fixed to the axle to give a greater motive power to the pitman.

If desired, the pitman may be made adjustable in such manner that the horse may be rocked or not when moving horizontally.

Having described my invention, I claim—

10 1. The combination of the truck, the parallel arms I, extending upward and forward from the rear end thereof, the body having a recess, *j*, in its under side, the projection *h*, depending from the body in advance of said recess, and having its lower end pivoted between
15 the upper ends of the arms I, the conveying-wheels at the rear end of the truck, having a cranked axle, and the pitman arranged between the arms I, and having one end mounted
20 on said cranked axle, and its other end pivoted in the recess *j* in the body, as set forth.

2. In a hobby-horse, the combination, with the body and head, of the neck composed of transverse sections, the non-elastic cords connecting the body, sections, and head in median
25 lines above and below, and the elastic strips connecting the body, sections, and head on each side, midway between said non-elastic cords, substantially as specified.

30 3. In a hobby-horse, the combination, with the body, head, saddle, and bridle secured to the head, of the neck composed of transverse

sections, each beveled from its central vertical line on both sides and both faces, the non-elastic cords connecting the body, head, and
35 sections in median lines above and below, and the elastic strips connecting the body, sections, and head midway between the elastic strips, substantially as specified.

4. The combination, with the truck, the horse
40 supported thereon and provided with a guide-bar, O, the vertical standard journaled in the truck and provided near its upper end with a longitudinal slot for the passage of said guide-bar O, and the guide-wheel journaled in the
45 lower end of said standard below the truck, substantially as specified.

5. In a hobby-horse, the neck composed of a series of transverse sections having an elastic connection, as set forth.

6. In a hobby-horse, the neck composed of a series of transverse sections beveled on their
50 opposing faces, the elastic connection for the sections of the neck, and the head secured to the flexible neck and movable therewith, as
55 set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

WILLIS DAVIS.

Witnesses:

BYRON C. SNYDER,
EDGAR SNYDER.