

(No Model.)

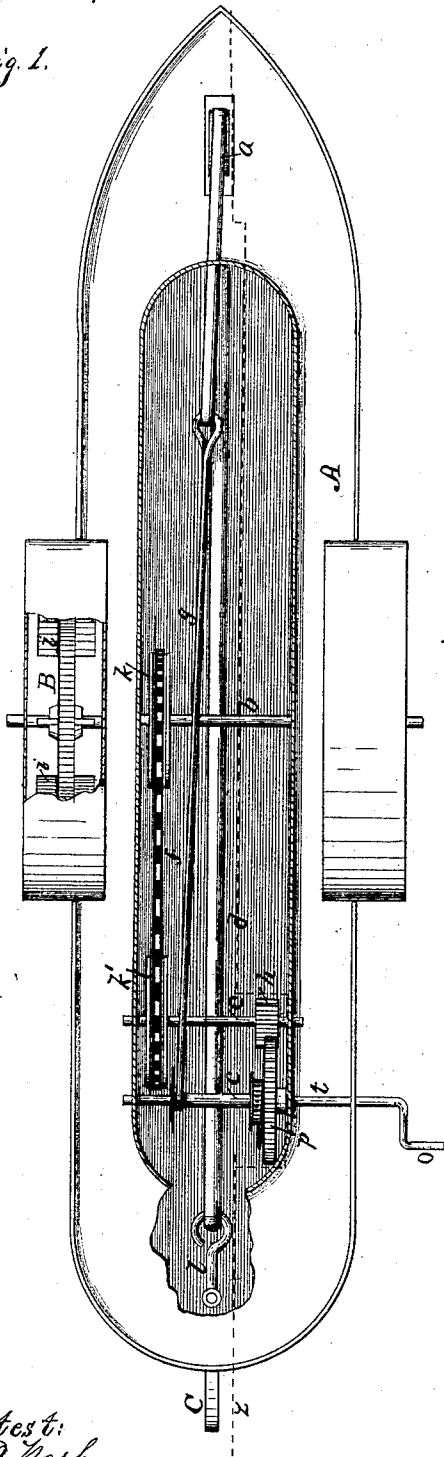
2 Sheets—Sheet 1.

J. H. BOGNER.
TOY VEHICLE.

No. 340,655.

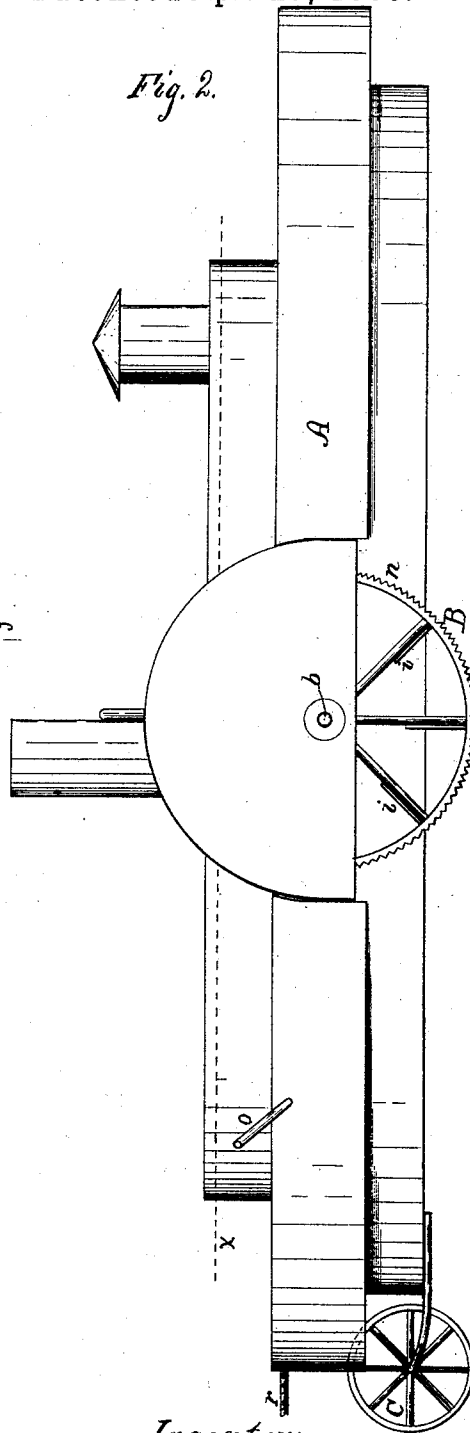
Patented Apr. 27, 1886.

Fig. 1.



Attest:
C. B. Nash.
H. B. Knight.

Fig. 2.



Inventor:
John H. Bogner,
By E. B. Whitmore, Atty.

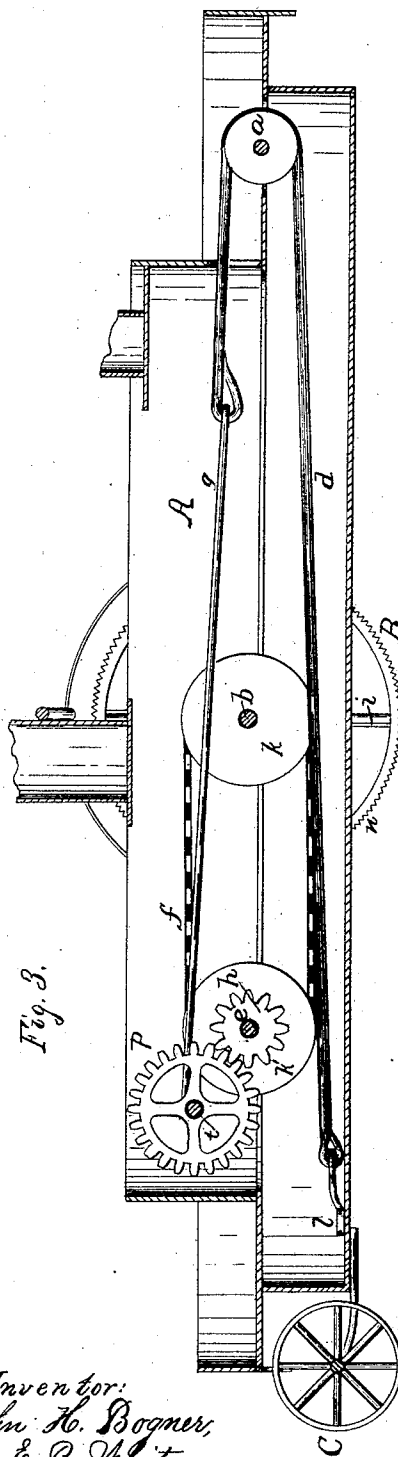
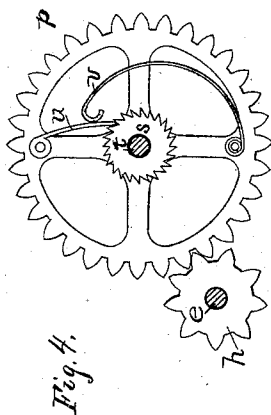
(No Model.)

2 Sheets—Sheet 2.

J. H. BOGNER.
TOY VEHICLE.

No. 340,655.

Patented Apr. 27, 1886.



Attest:
C. B. Wash.
H. B. Knight

Inventor:
John H. Bogner,
By E. B. Whitmore,
Atty.

UNITED STATES PATENT OFFICE.

JOHN H. BOGNER, OF ROCHESTER, N. Y., ASSIGNOR OF TWO-THIRDS TO LOUIS P. WOLOHAN AND JAMES WOLOHAN, SR., BOTH OF SAME PLACE.

TOY VEHICLE.

SPECIFICATION forming part of Letters Patent No. 340,655, dated April 27, 1886.

Application filed November 2, 1885. Serial No. 181,617. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. BOGNER, of Rochester, in the county of Monroe and State of New York, have invented a new and useful
5 Improvement in Toy Vehicles, which improvement is fully set forth in the following specification, and shown in the accompanying drawings.

The object of my invention is to produce a
10 rolling or moving toy in the form of a boat or other vehicle, the propelling-power for the same being an elastic cord operating-gearing which turns the driving-wheels of the device, causing the latter to move along the floor or
15 in the water, as the case may be, the driving-wheels being so constructed that by drawing the vehicle backward, by means of a string or cord attached thereto, the driving-cord becomes strained, so as to propel the vehicle
20 ahead when left to itself.

Referring to the drawings, Figure 1, Sheet 1, is a plan of my improved toy, it being here shown in the form of a boat, a part of the wheel-house and deck being broken away to
25 uncover other parts beneath, and the cabin horizontally sectioned, as upon the dotted line *x* in Fig. 2; Fig. 2, a side elevation of the same, viewed as indicated by arrow *y* in Fig. 1, drawn to more fully show the form of the driving-wheels; Fig. 3, Sheet 2, a side sectional
30 elevation of the same, viewed in the direction in which Fig. 2 is seen, the body of the toy being vertically and longitudinally sectioned, as upon the dotted line *z* in Fig. 1, drawn to further show the relative positions of the parts; and Fig. 4, a detached view of a part of driving-gear drawn to a larger scale, and viewed in the
35 opposite direction from which Fig. 3 is seen.

Referring to the parts, A is the body of the vehicle, and B the driving-wheels thereof, one
40 being placed on either side of the body and secured to the same horizontal transverse shaft *b*.

d is an elastic driving-cord, which constitutes
45 the propelling-power of the device. This cord is held at one end by a simple fastener, *l*, to the body, near the rear end thereof, and carried thence forward and around a pulley, *a*, near the forward end of said body, as shown.

50 *t* is a transverse shaft resting in bearings in

the body, and provided with a loose spur-gear, *p*, and enlarged part or drum *c*, upon which to wind the cord *g*, said cord being secured at one end to said shaft, and at the other end to the free end of the elastic driver *d*. Clearly
55 shown in Figs. 1 and 3.)

The shaft *t* may be provided with a crank, *o*, or other simple means by which to rotate it, for the purpose of winding the cord *g* thereon, to strain or produce a tension upon the elastic driver *d*.
60

e is another transverse shaft, parallel with the shaft *t*, resting in bearings in the body of the device, provided with a pinion, *h*, in position to engage the gear *p*, above mentioned.
65 This shaft is also provided with a sprocket, *k*, opposite a similar sprocket, *k*, secured to the shaft *b* of the driving-wheels, a chain, *f*, passing over said sprockets.

Now, it will be understood that if the shaft
70 *t* be rotated from any cause, the driving-wheel B will be turned at a more rapid rate, and if resting upon the floor the device will be propelled therealong. When the cord *g* is wound upon the shaft *t*, as stated, and the driving-cord
75 *d* sufficiently strained, said driving-cord will rotate said shaft, and thus propel the vehicle.

The driving-wheels B are formed with peripheral teeth or ridges *n*, for the purpose of causing them to hold more firmly upon the
80 floor or carpet and not slip when the toy is being used. The spokes of these wheels are also provided with buckets *i*, when the toy is made in the form of a boat, by means of which the latter may be propelled along the water
85 to imitate a steamboat.

The crank *o* is needed only occasionally to wind the cord *g* upon the shaft *t*, for the cord may be thus wound upon the shaft by moving the toy backward along the floor. A string,
90 *r*, is attached at the rear of the toy, to be seized by a child to draw the same around the room, doing which the wheels B will be turned backward, causing the shaft *t* to wind up the cord *g* and strain the driving-cord *d*, which, when the
95 cord *r* is released by the child, causes the toy to glide away from him.

The shaft *t* is provided with a rigid ratchet, *s*, at the side of the gear *p*, and a pawl, *u*, is secured to the gear, the free end of which pawl
100

engages the teeth of the ratchet, and gently held thereagainst by means of a spring, *v*, also secured to the gear. By this means the gear *p* is turned in one direction by the rotation of the shaft *t*, while said shaft turns independent of the gear in the other direction, or when the cord *g* is being wound upon it.

A stern-wheel, *c*, or other carrying-wheels for the body of the toy, may be employed at pleasure.

What I claim as my invention is--

A toy vehicle having a body in the form of a boat, in combination with a shaft, *b*, provided with a sprocket and driving-wheels for the ve-

hicle, said driving-wheel being provided with buckets and extending below the body of the vehicle, a shaft, *t*, with gear *p*, shaft *e*, with pinion and sprocket, a chain, *f*, for said sprockets, an elastic driving-cord secured to the lower part of said body and carried forward over a pulley secured to said body, a cord, *g*, secured to said driving-cord and passed around said shaft *t*, and a supporting-wheel, *C*, substantially as shown and described.

JOHN H. BOGNER.

Witnesses:

E. B. WHITMORE,
H. B. KNIGHT.