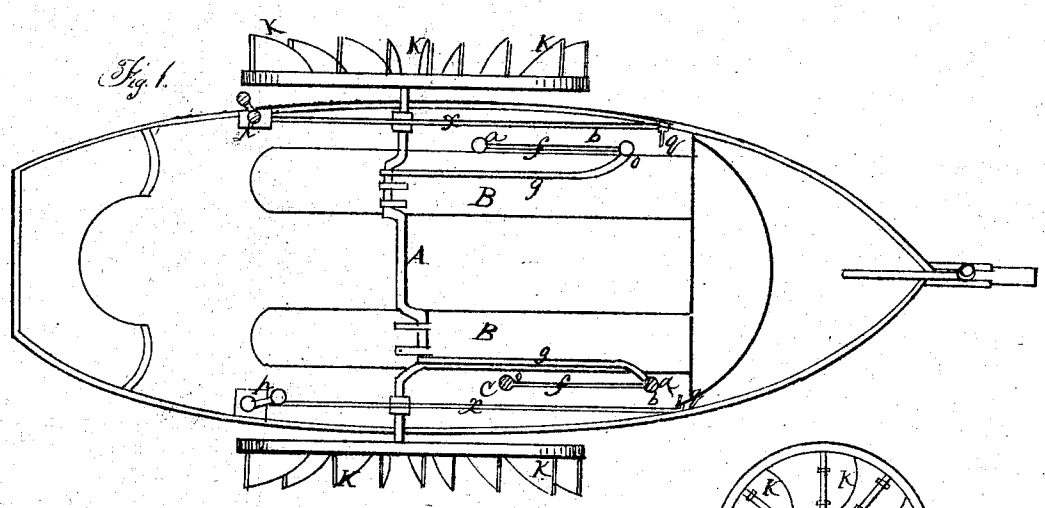
W. G. Crossley.

Velocipede for Land & Water.

No. 75531 Patented Mar. 17, 1868

Fig. 1.



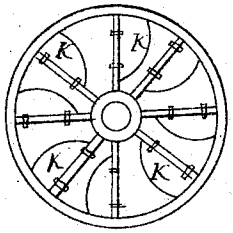


Fig. 2.

Witnesses
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by alys
Gardiner & Hyde

United States Patent Office.

WILLIAM GEORGE CROSSLEY, OF CAMBRIDGE, ENGLAND.

ters Patent No. 75,531, *dated March* 17, 1868.

IMPROVEMENT IN VELOCIPEDE FOR LAND AND WATER.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, WILLIAM GEORGE CROSSLEY, of Cambridge, England, have invented a new and useful Improved "Land and Water Velocipede;" and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon. In the drawings—

Figure I is a plan view,

Figure II a side view, and

Figure III a side sectional view of my device.

This invention consists of a velocipede arranged in such a manner as to be equally adapted to land or water. It consists of a carriage or body formed in the shape of a boat, and having side-wheels, connected with each other by a main shaft across the centre of the body, similarly as in the case of the ordinary steamboat. This main shaft, A, has double cranks upon it, which are operated by treadles B, in the bottom of the boat, and by levers *a*, *b*, *c*, &c., arranged in connection with the cranks and treadles in such a manner that the shaft A may be revolved by both levers and treadles in conjunction. The crank-rods, connecting with the treadles, are also arranged so that they may be detached, if desired, and the cranks operated by the levers alone.

In the drawings, it is shown that the levers *a*, *b*, *c*, and *d* are arranged two on each side of the body, and are hinged, at the bottom, at *o o o o*. The levers on each side are connected with each other by rods *f f*, the crank-arms *g g* acting for both, each arm, *g*, being connected with the foremost lever. By this arrangement of cranks, levers, and treadles, all or nearly all of the passengers of the vehicle are enabled to take part in its propulsion at the same time.

The paddles, for water progression, are arranged upon the wheels in such a manner that, when not in use, they may be folded in so as not to impede the revolution of the wheels, in the land operation, by catching the air. They consist of flanges *k k k*, &c., hinged upon the spokes of the wheels, so as to fold forward, but when opened are prevented from folding back, either by the construction of the hinge or other suitable means.

At the front of the body of the vehicle is placed a guiding-wheel, arranged with a tiller, projecting inwards over the front seat. This wheel can be entirely unshipped, when the vehicle is aquatic, and placed inside. A rudder, similar in construction and arrangement to those ordinarily in use upon small boats, is placed at the stern, and can also be taken off when desired.

An arrangement may be used for raising or lowering the shaft by means of rods *x* and *x'*, which have the main bearings upon them, and can be lowered or raised to the proper degree by means of the screw *p*, on one end, and the adjusting-pin *q*, upon the other.

The advantages of this device are that the same vehicle may be propelled over land and water. It can be made very cheaply and light, and all or nearly all of the passengers may assist in its motion, by means of the foot and hand-levers.

Now, having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The velocipede, in which the body is made so as to serve as a boat or car, as the same is used upon land or water, and constructed substantially as herein described.

2. The combination of treadles B and levers *a*, *b*, *c*, &c., for operating the shaft, arranged substantially in the manner shown.

WILLIAM GEORGE CROSSLEY.

Witnesses:

LEWIS HENRY MUNSON,

HUGH ROBERT EVANS.