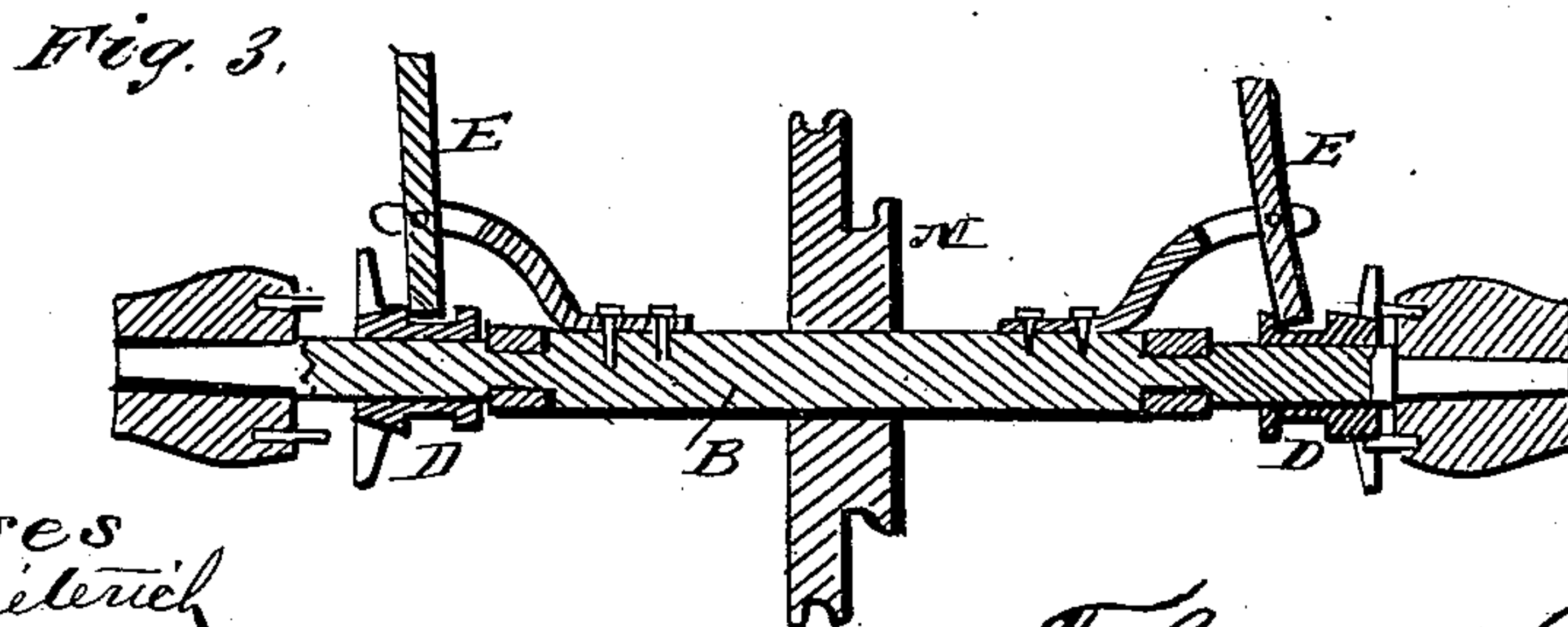
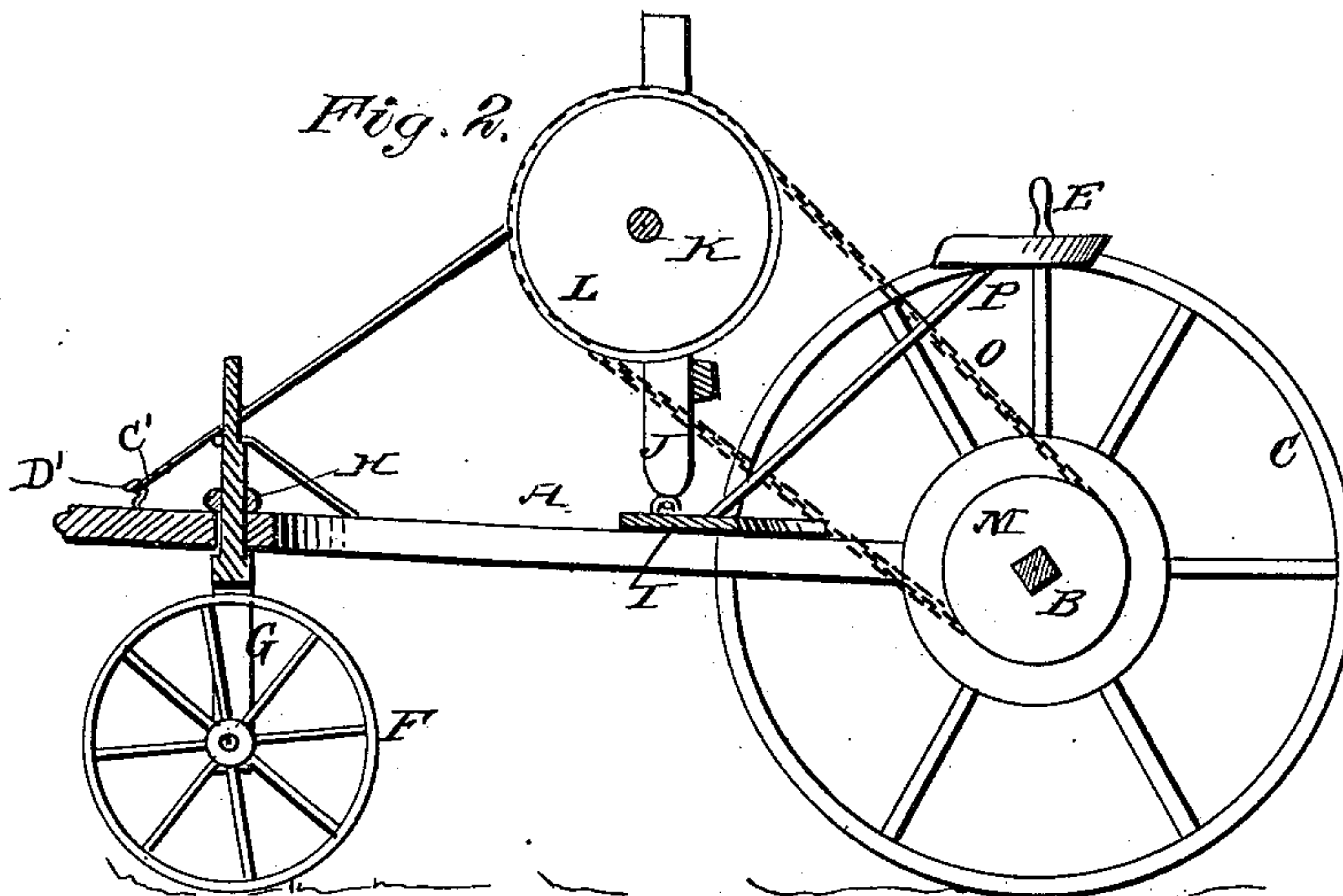
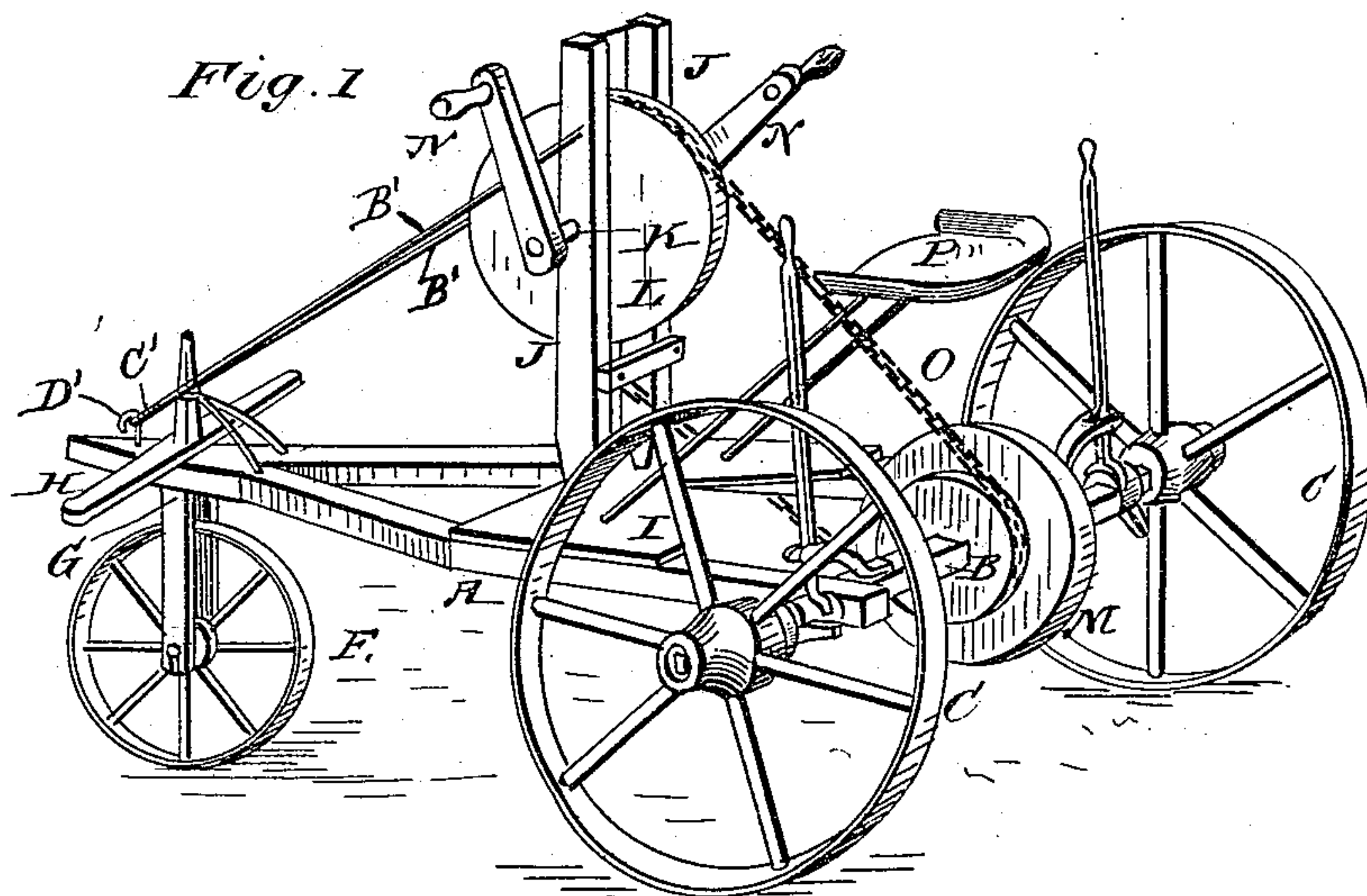


(No Model.)

T. B. ZELLER.  
Velocipede.

No. 233,903.

Patented Nov. 2, 1880.



Witnesses  
Fred. G. Dietrich

Geo. P. Brooks.

Inventor

Thomas B. Zeller,  
per C. A. Saward.



# UNITED STATES PATENT OFFICE.

THOMAS B. ZELLER, OF KOSSUTH, PENNSYLVANIA.

## VELOCIPEDÉ.

SPECIFICATION forming part of Letters Patent No. 233,903, dated November 2, 1880.

Application filed July 17, 1880. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS B. ZELLER, of Kossuth, in the county of Clarion and State of Pennsylvania, have invented certain new and useful Improvements in Velocipedes; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

Figure 1 is a perspective view. Fig. 2 is a vertical longitudinal section, and Fig. 3 is a vertical cross-section.

Corresponding parts in the several figures are denoted by like letters of reference.

This invention relates to tricycles; and it consists in certain improvements in the construction of the same, which will be hereinafter fully described with reference to the drawings, in which—

A represents a frame provided at its rear end with bearings for an axle, B, having loose wheels C C, capable of being connected firmly with the axle by means of clutches D D operated by levers E, the object of this being to facilitate turning of the machine in either direction. The front end of the frame is supported upon a guide-wheel or caster, F, journaled in the lower end of a standard, G, swiveled in the front end of said frame and provided with a cross-piece, H.

I is a cross-piece or platform connecting the sides of frame A, and provided with two pivoted or hinged uprights, J J, having bearings for a transverse shaft, K, carrying a pulley, L. Upon the axle B a cone-pulley, M, is secured. From the shaft K, which is operated by cranks N, motion is transmitted, by a belt or chain, O, to the axle, said belt or chain being, in the usual manner, adjustable upon the pulleys for the purpose of regulating the speed of the machine.

For the purpose of maintaining the uprights J J securely in an upright position I employ braces B' B', secured to said uprights, and

having their converging front ends provided with an eye, C', which may be attached to a hook, D', at the front end of the frame. When it is desired to shift the belt or chain said braces may be unhooked and the braces thrown slightly back, thus enabling the change to be effected with comparative ease, and without the possibility of injury to any part of the machine.

For the driver a seat, P, is provided in rear of the uprights J, in a position where he may readily manipulate the cranks N, and also operate the clutch-levers E. His feet should rest upon the cross-bar H of the swiveled standard G, which may thus be easily operated when any curves are to be turned.

From the foregoing description, taken in connection with the drawings hereto annexed, the operation and advantages of my invention will be readily understood. It is simple, durable, inexpensive, and by the exercise of slight power great speed may be attained.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The combination of the frame A, axle B, having cone-pulley M, wheels C C, and clutches D D, levers E E, swiveled standard G, having wheel or caster F, and cross-piece H, uprights J J, having shaft K, provided with pulley L and cranks N, and the belt or chain O, all arranged and operating substantially as and for the purpose herein shown and specified.

2. The combination, in a velocipede, of the frame A, axle B, having cone-pulley M, hinged uprights J J, having shaft K, with pulley L, braces B' B', having eyes C', and the hooks D', all combined and operating substantially as and for the purpose set forth.

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

THOMAS BENTON ZELLER.

Witnesses:

HENRY I. MOREY,

GEORGE A. RUSSELL.