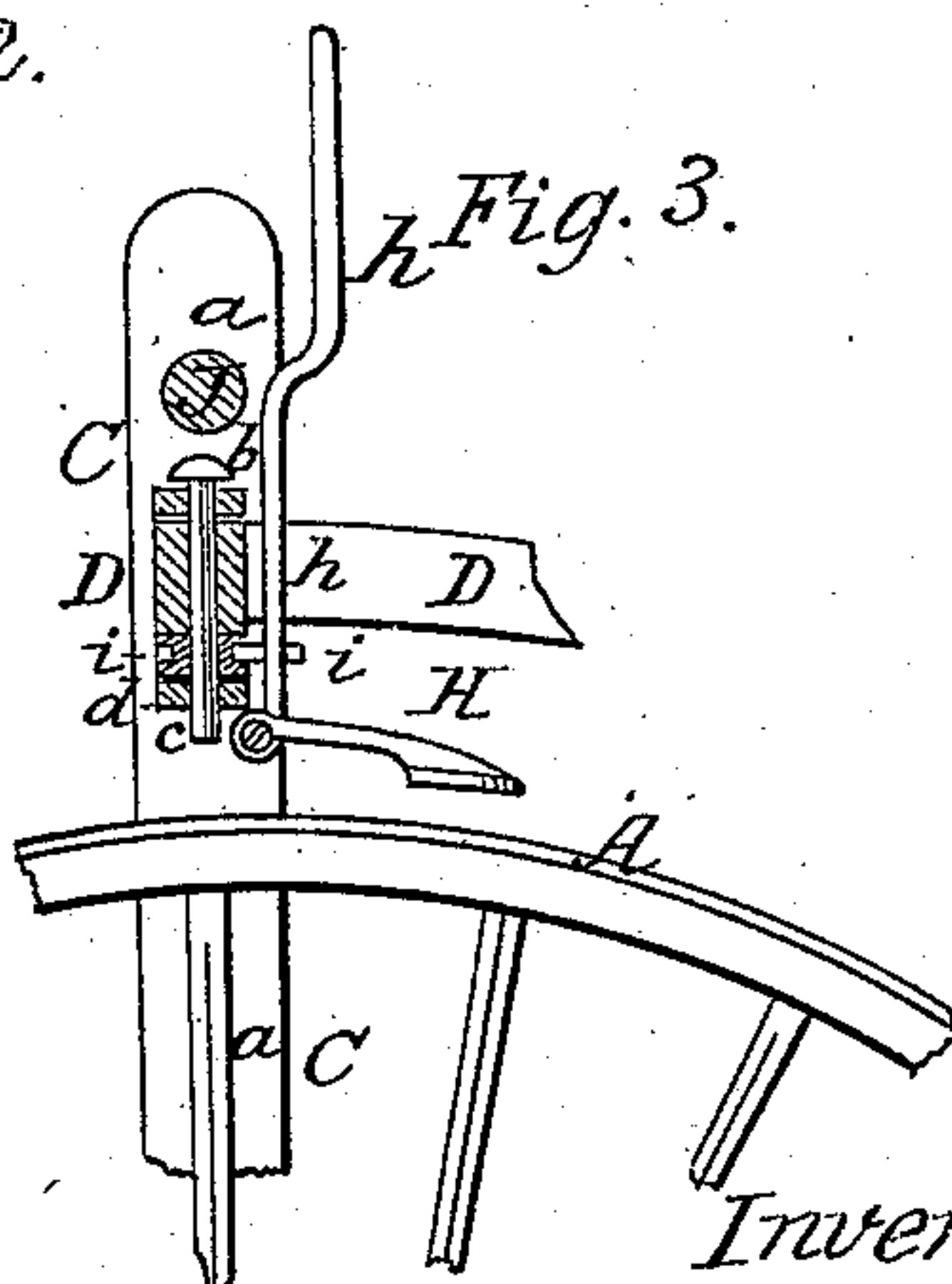
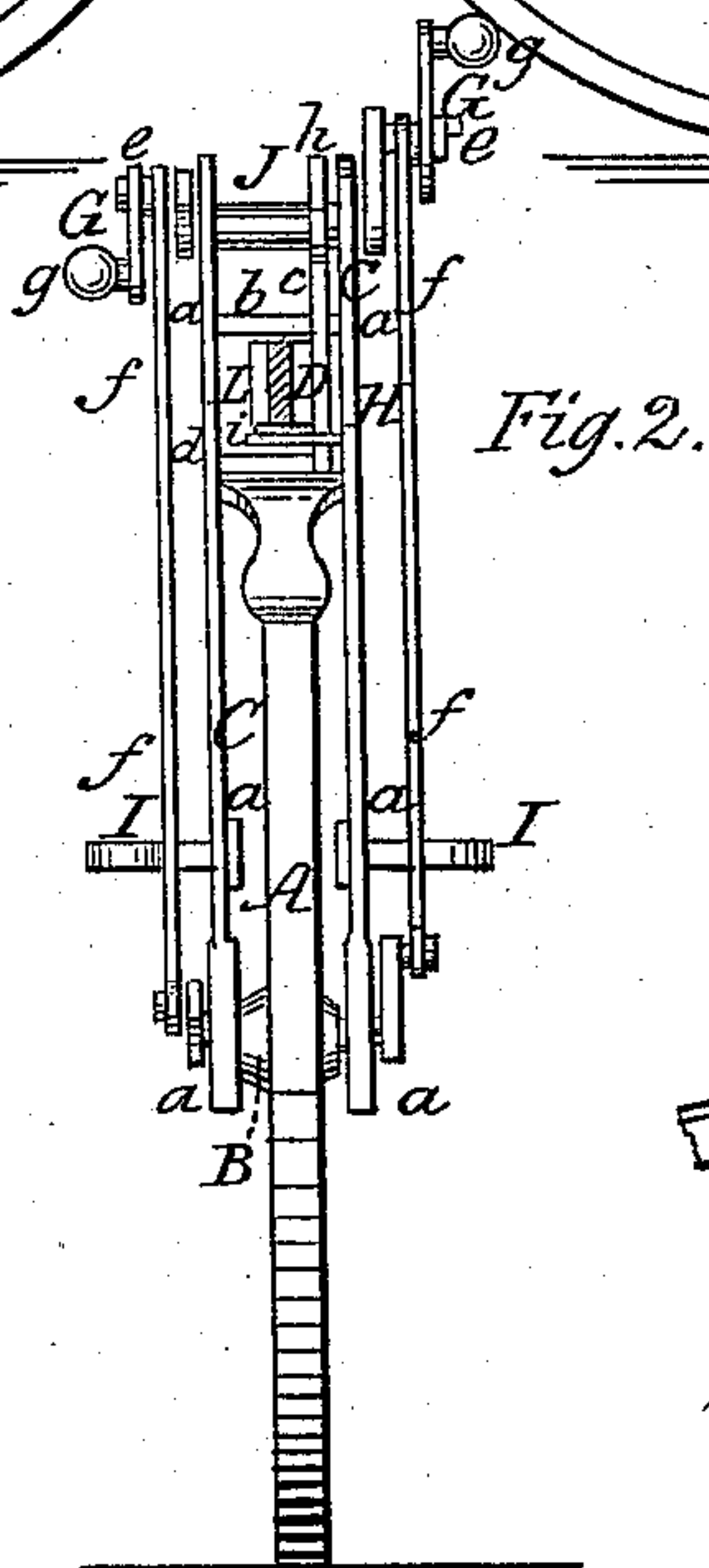
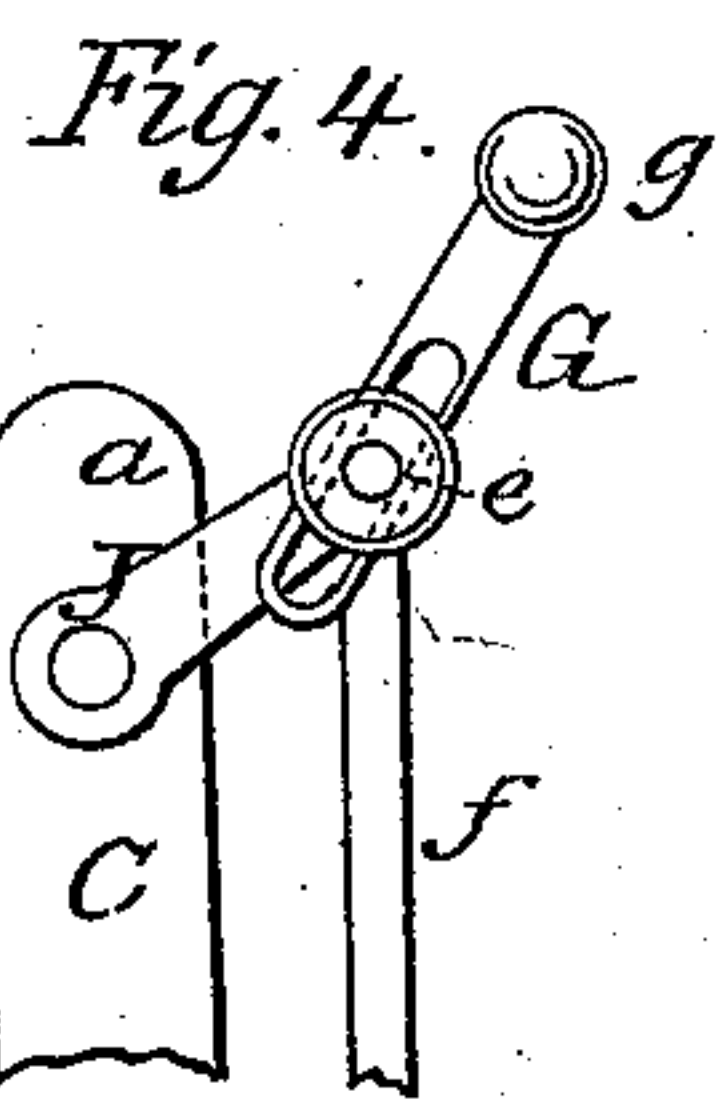
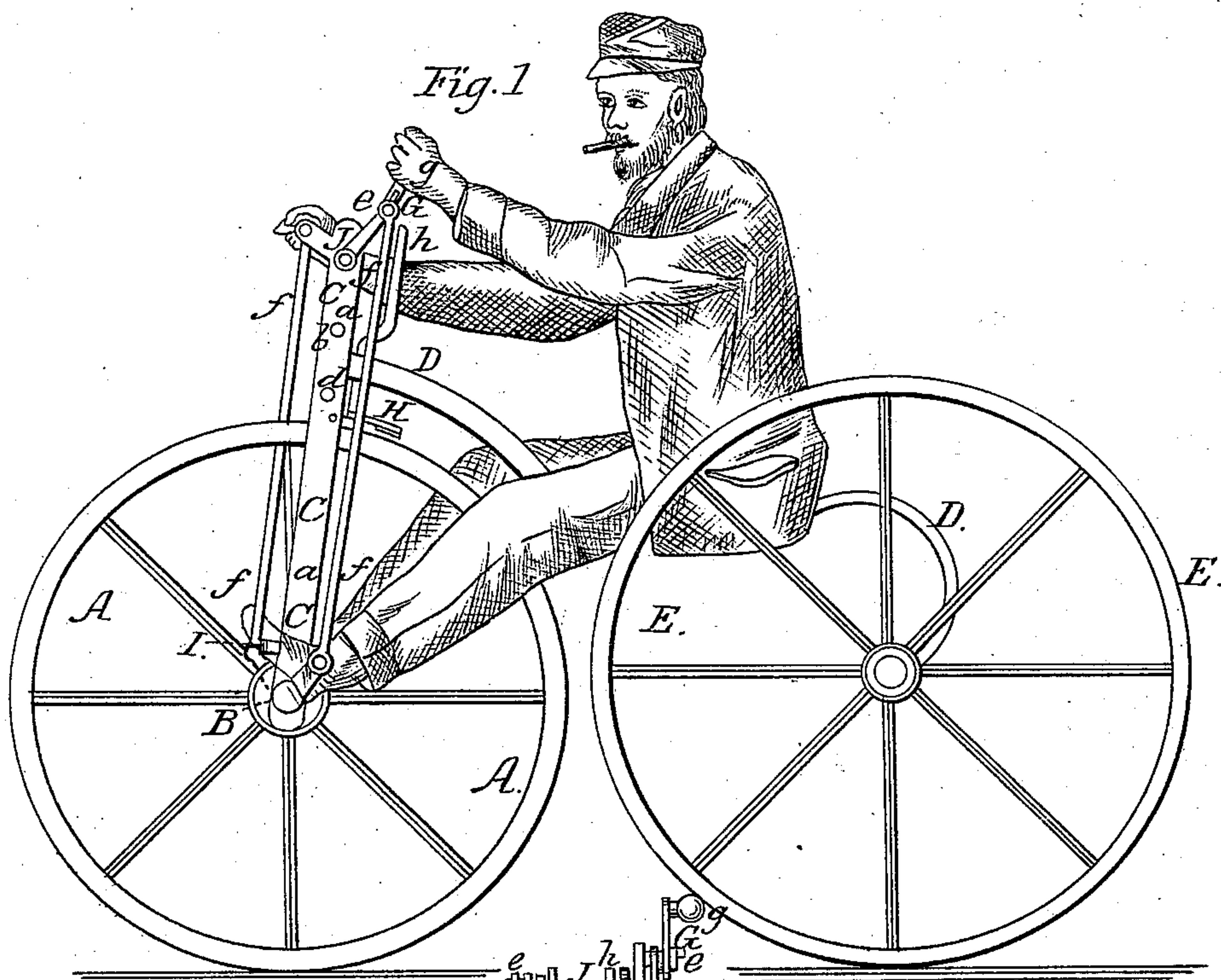


**Velocipede.**

Patented Aug. 17, 1869.



Witnesses.

Gustave Dietrich.  
J. Finckman.

*Inventor.*

S. H. Sawhill  
Munro



# United States Patent Office.

S. H. SAWHILL, OF CAMBRIDGE, OHIO.

Letters Patent No. 93,751, dated August 17, 1869.

## IMPROVED VELOCIPEDE.

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, S. H. SAWHILL, of Cambridge, Guernsey county, Ohio, have invented a new and improved Velocipede; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a side view of my improved velocipede.

Figure 2 is a vertical transverse section of the same, taken between the front and rear axles.

Figure 3 is a detail longitudinal section of the same.

Figure 4 is a detail side view, on an enlarged scale, of the handle of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new two or three-wheeled velocipede, which is to be propelled by hand, and which is so constructed that it can be easily operated, and that the body will be sustained in the most advantageous position.

The invention consists in several improvements of the driving-mechanism, of the foot-supports, and steering-mechanism, which, separately or combined, tend to produce a simple and convenient apparatus.

A, in the drawing, represents the front wheel of my improved velocipede.

Its crank-axle B is hung in the steering-post C, which is constructed of two parallel bars *a a*, that are connected by a cross-bar or plate, *b*, above the wheel.

This bar or plate *b* rests upon the front end of the reach D, and is pivoted thereto by means of a king-bolt, *c*, as is clearly shown in fig. 3.

The reach may be enlarged where the king-bolt passes through it, and a lower cross-bar, *d*, may also be formed on the post C, below the reach, to receive the bolt.

The rear wheel or wheels E have their bearings on the rear end of the reach.

The saddle F is, in suitable manner, supported by the reach.

In the upper end of the steering-post are the bearings for a horizontal crank-shaft, J, whose wrist-pins *e e* are, by means of rods *f f*, connected with the cranks of the axle B, as shown.

The wrist-pins *e e* fit through slotted plates G G, which have projecting handles *g* for the hands, and which can, by means of nuts on the pins *e*, be clamped in any desired position.

The crank-handle can thus be lengthened or shortened without interfering with the connecting-rods.

A brake, H, is pivoted to the post C, and has an upward-projecting handle, *h*, which is, by a spring, *i*, drawn forward to hold the brake off the front wheel. A simple motion of the rider will apply the brake.

I I are ogee-shaped or otherwise curved bars or rods, which are attached to the sides of the post C. Their inner parts serve as guides for the rods *f*, while their outer parts are foot-supports and steering-levers.

The rider, holding the feet on these fixed bars I, can readily, and by an imperceptible motion, turn the post to guide the apparatus in any desired direction.

I claim as new, and desire to secure by Letters Patent—

1. The steering-post C, constructed, as described, of the two parallel bars *a a*, hung upon the crank-axle B, and connected by the plates *b d*, between which the end of the reach D is pivoted, said post being provided at its upper end with the crank-shaft J, and near its lower end with the foot-rests I, as herein described, for the purpose specified.

2. The arrangement of the extension-plates G, carrying the handles *g*, and adjustable upon the wrist-pins of the crank-axle J, the connecting-rods *f*, steering-post C, and crank-axle B, as herein described, for the purpose specified.

3. The extension-plates G, carrying the handles *g*, when slotted and adjustable on the wrist-pins of the crank-shaft J, as herein described, for the purpose specified.

S. H. SAWHILL.

Witnesses:

ELZA TURNER,  
ASH WILLIAMS, Jr.