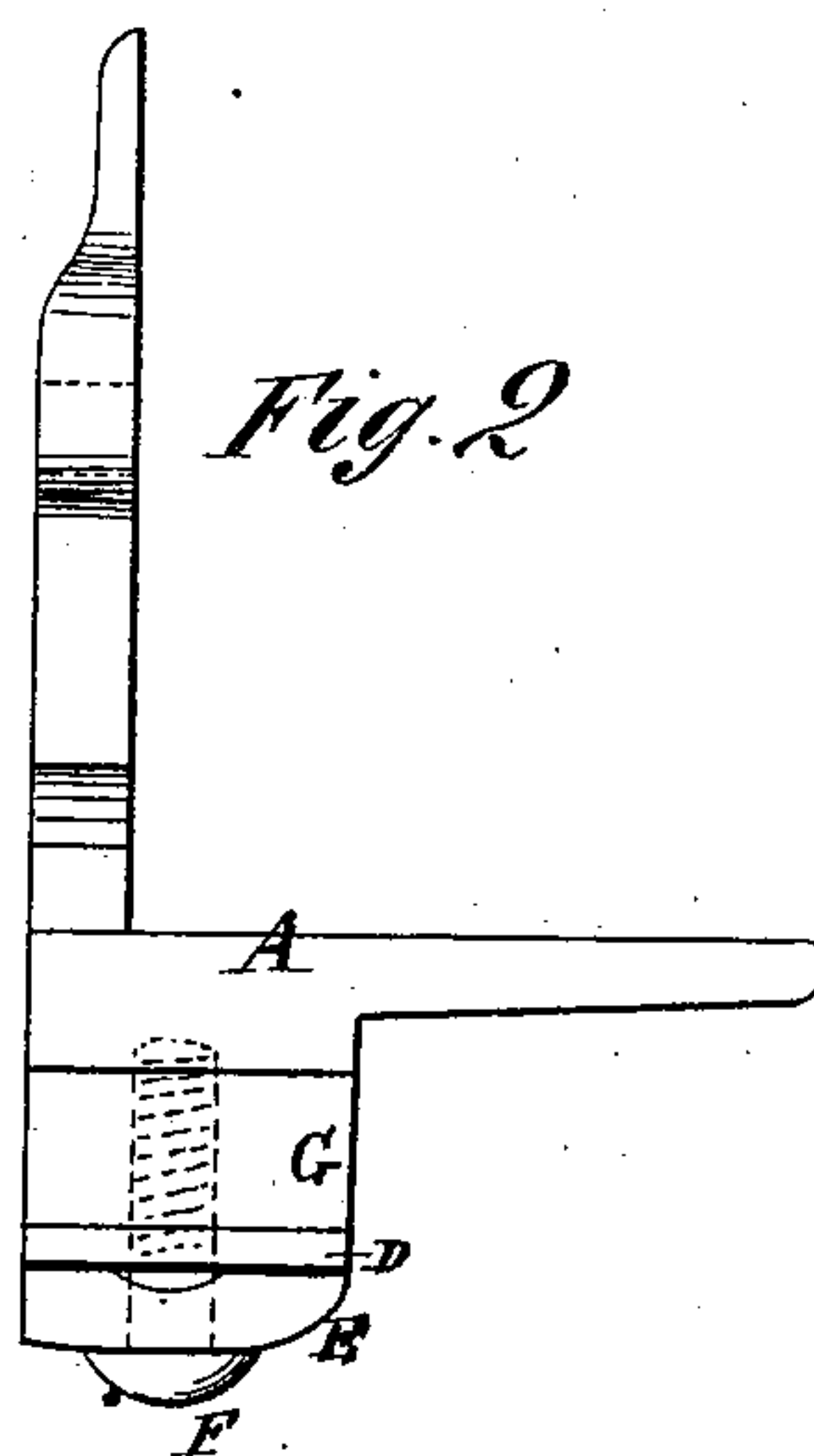
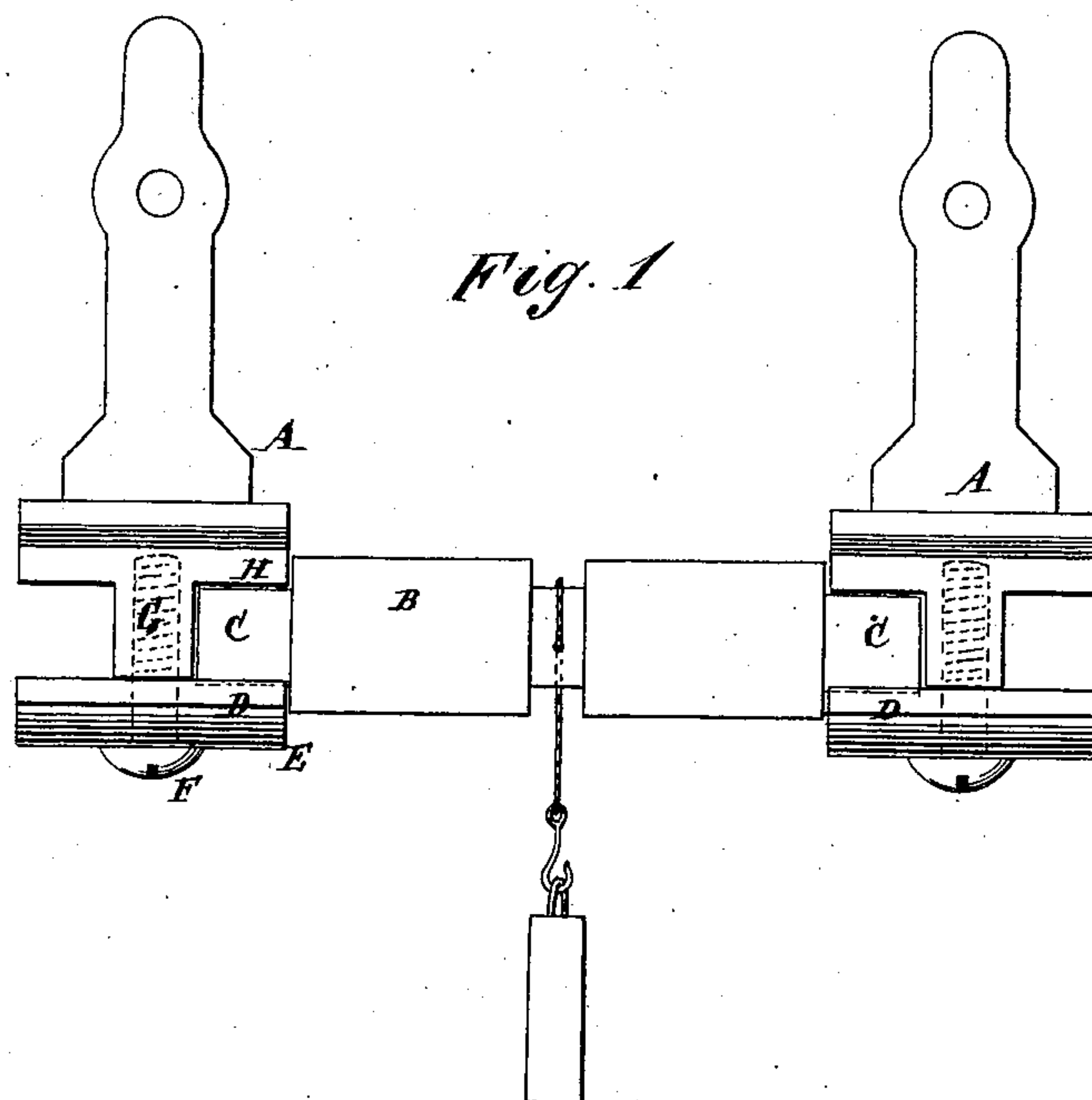


S. DYER.
Roller-Bearings for Speeders, &c.

No. 167,654.

Patented Sept. 14, 1875.



WITNESSES:

A. W. Amqvist
A. J. Terry

INVENTOR:

Samuel Dyer
 BY *Munn & Co.*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

SAMUEL DYER, OF NATICK, RHODE ISLAND.

IMPROVEMENT IN ROLLER-BEARINGS FOR SPEEDERS, &c.

Specification forming part of Letters Patent No. **167,654**, dated September 14, 1875; application filed June 19, 1875.

To all whom it may concern:

Be it known that I, SAMUEL DYER, of Natick, in the county of Kent and State of Rhode Island, have invented a new and Improved Roller-Bearing for Speeders, &c.; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming a part of this specification, in which—

Figure 1 is a front elevation of one of the front rollers, and the bearing-tips in which it is supported, showing the application of my improved bearings; Fig. 2, a side elevation of one of the tips.

The invention will first be fully described, and then pointed out in the claim.

A represents the tips for supporting the rollers; B, one of the rollers, and D the bearing of rawhide or other suitable material which I propose to use for the journals. E is a bearing-plate, and F a screw by which to attach and support the bearing, the said plate and the bearing being screwed onto the lug G, under the cup H. The tip-bar is eighteen inches long, and on one speeder are six rolls, while under these rolls are three fluted rolls, that run the whole length of the speeder.

The back and middle roll are supported by the tip-bar, that is arranged to slide in and out, so as to place it exactly on the center of the bottom roll. The front roller turns four times while the back and middle turn once. Hence, the draft comes on the front and middle roll, and it is necessary to weight the front roller so heavily that it cuts into this tip-bar. As it is made of malleable iron, and costs thirty cents a pound, it is too valuable to throw away and yet very expensive to repair. The front rolls are difficult to keep in the center, as they wear this tip, and the roller has then a chance to zigzag and cut the drawing-roll. The result is very bad work, while good work in the mill depends on good work in the speeder. Hence, I introduce the removable bearing-plate E, so that when worn, it can be easily and cheaply replaced.

What I claim is—

The combination of tip A, having cup H and lug G, the plate E and screw F, as and for the purpose specified.

SAMUEL DYER.

Witnesses:

FRANK SAYLES,
GEORGE T. PERRY.