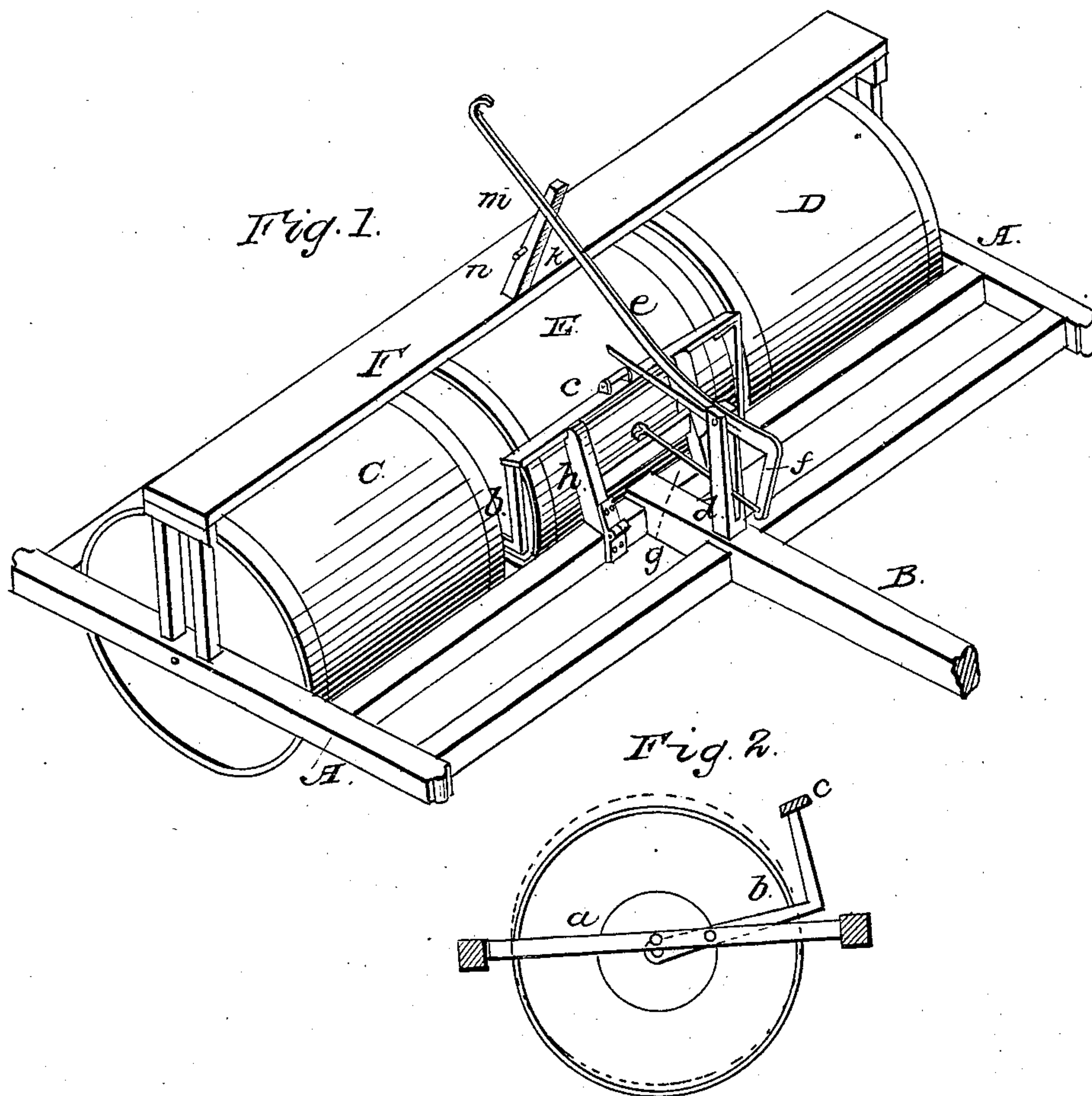


FULLER & SWAIN.

Land Roller.

No. 84,541.

Patented Dec. 1, 1868.



Witnesses:
A. A. Heathman
Leopold Over

Inventors.
Daniel Fuller and Delos Swain
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Attorneys



DANIEL FULLER AND DELOSS SWAIN, OF OAKWOOD, MICHIGAN.

Letters Patent No. 84,541, dated December 1, 1868; antedated November 28, 1868.

IMPROVEMENT IN LAND-ROLLER.

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

To all whom it may concern:

Be it known that we, DANIEL FULLER and DELOSS SWAIN, of Oakwood, in the county of Oakland, and in the State of Michigan, have invented certain new and useful Improvements in Land-Rollers; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of our invention consists in a combination of flexible and stiff rollers.

To enable others to make and use our invention, we will proceed to describe its construction and operation.

In the annexed drawings, forming part of this specification,

A represents a wooden frame, made of suitable dimensions.

B, the tongue to which the team is to be attached.

C and D are two fixed rollers, one in each end of the frame A, which rollers revolve on an axle having its bearings, one end in the side of the frame and the other in a cross-bar, *a*, leaving thus a space in the centre for the movable or adjustable roller E.

This roller E revolves on an axle, which has its bearings in the ends of two levers, *b b*, which are pivoted on the cross-bars *a a*, a little in front of where the axles to rollers C and D have their bearings.

The two levers *b b* are joined together, in front of the roller E, by a cross-piece, *c*.

On the front part of the frame A is a post, *d*, which is slotted in the top, and has a lever, *e*, running through it, extending towards the back part of the machine.

This lever has two arms, one marked *f*, extending

downward in front of post *d*, and connected, by means of a rod, *g*, to a hinged brake, *h*, which acts on the cross-piece *c* and levers *b b*, the other arm, *i*, extending backwards and acting directly on the brake *h*.

F represents a cross-piece, running on top of posts in frame A, over the rollers, in the centre of which is a post, *k*, with two pins, *m* and *n*, so arranged that the lever *e* can be held fast by either of them, if necessary or desired.

When the lever *e* is placed on top of pin *m*, the lower arm *f* presses the hinged brake to the cross-piece *c*, thereby making the centre roller E fixed, and when the lever *e* is placed between the pins *m* and *n*, the brake is removed, and roller E becomes adjustable.

When it is desired to turn the machine, place the lever *e* under the pin *n*, when the arm *i* will press on the cross-piece *c*, and raise the centre roller E from the ground, and the machine will turn as easily as any two-wheeled vehicle.

Having thus fully described our invention,

What we claim as new, and desire to secure by Letters Patent, is—

The arrangement of the rollers C E D, lever *e*, arms *f* and *i*, levers *b b*, and brake *h*, in the manner set forth, and constructed and operating substantially as specified.

In testimony that we claim the foregoing, we have hereunto set our hands, this 15th day of April, 1868.

DANIEL FULLER.
DELOSS SWAIN.

Witnesses:

L. W. STANTON,
S. D. AXFORD.