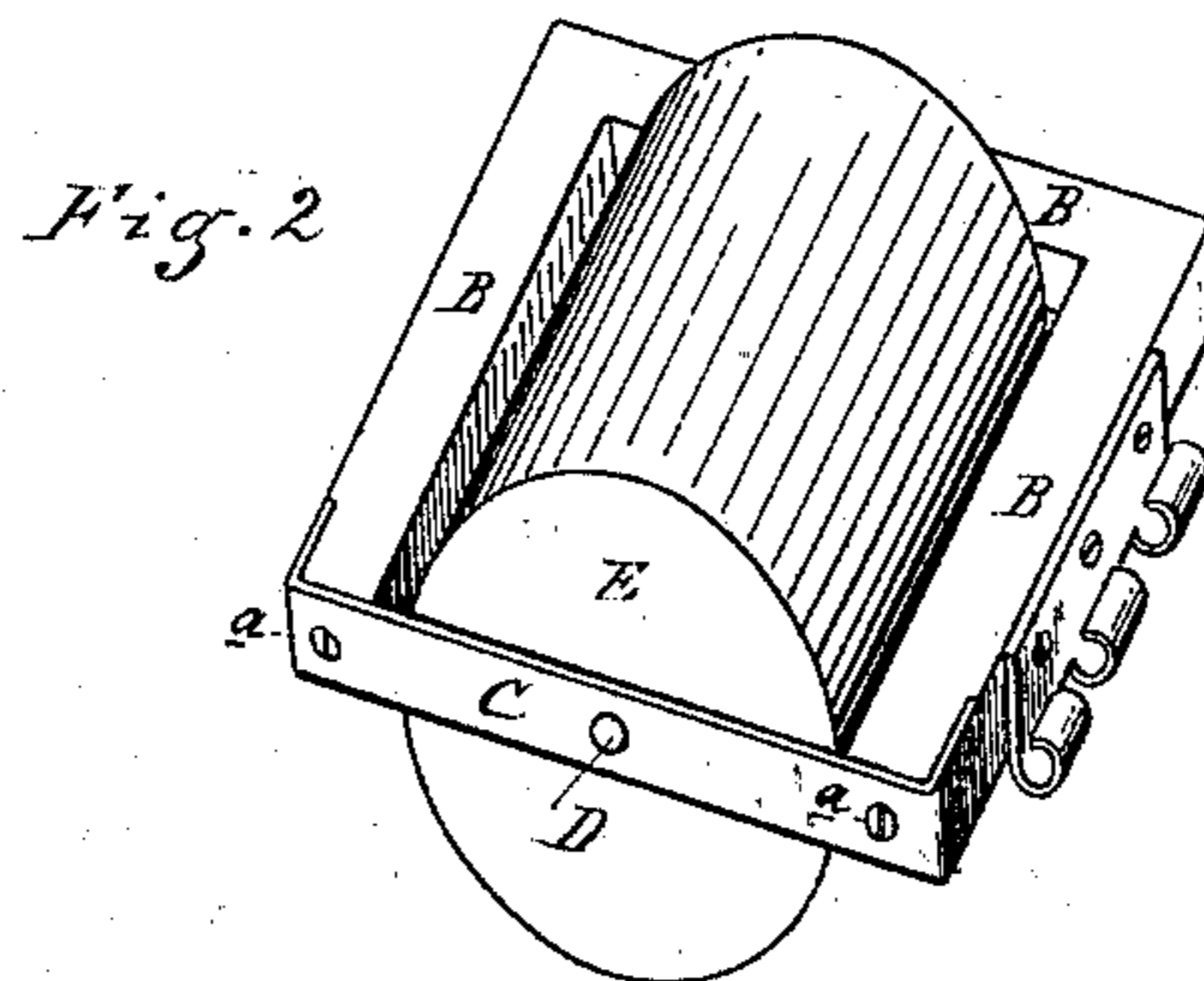
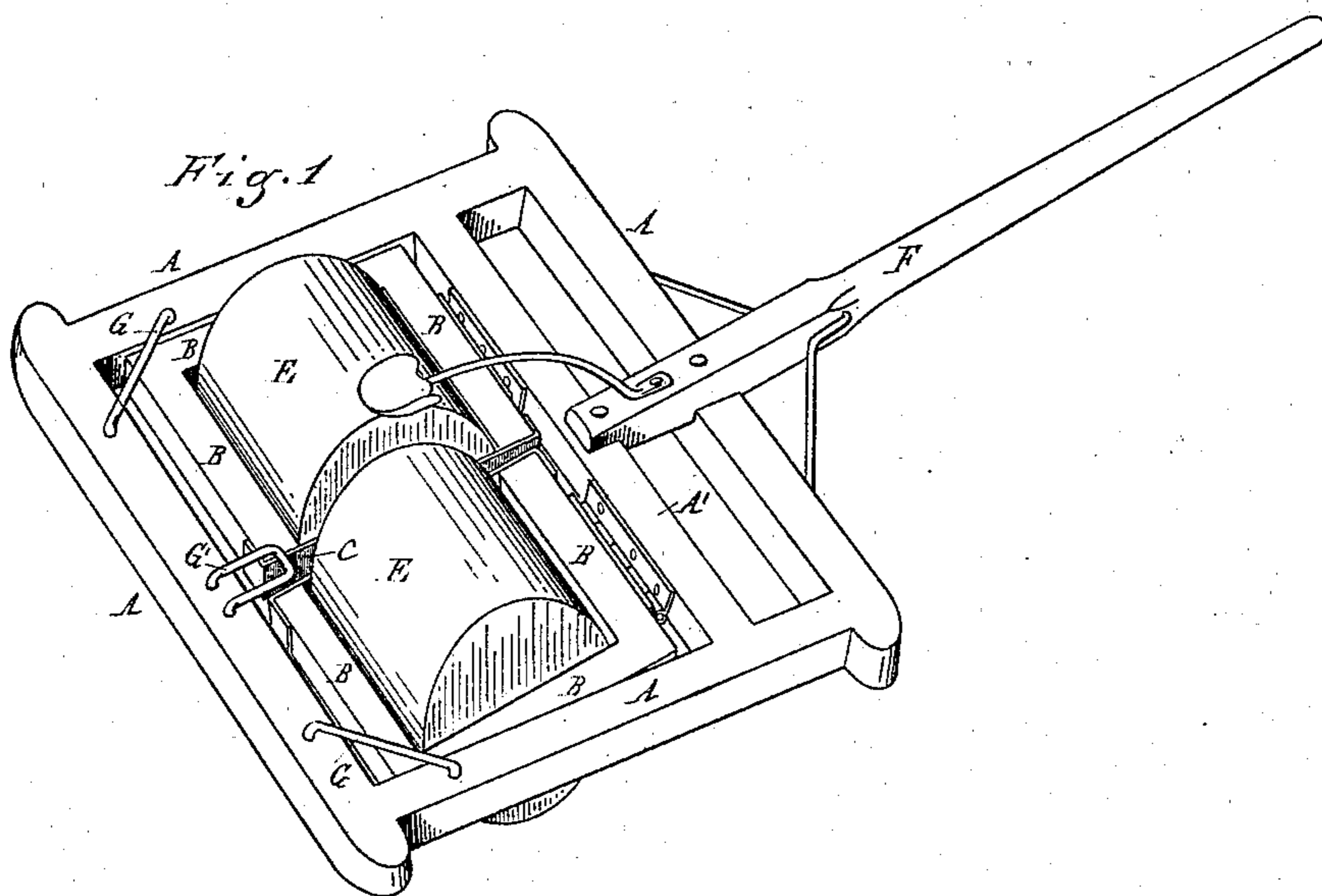


(No Model.)

T. KAMMERER.
Land Roller.

No. 232,354.

Patented Sept. 21, 1880.



Attest:
A. Barthel
Thos. S. Day

Inventor:
T. Kammerer
By atty
J. S. Sprague

UNITED STATES PATENT OFFICE.

TONY KAMMERER, OF WAYNE, MICHIGAN, ASSIGNOR OF ONE-HALF OF HIS
RIGHT TO JOHN J. PALMER, OF SAME PLACE.

LAND-ROLLER.

SPECIFICATION forming part of Letters Patent No. 232,354, dated September 21, 1880.

Application filed May 27, 1880. (No model.)

To all whom it may concern:

Be it known that I, TONY KAMMERER, of Wayne, in the county of Wayne and State of Michigan, have invented an Improvement in Land-Rollers, of which the following is a specification.

The nature of my invention relates to certain new and useful improvements in the construction of land-rollers adapted for both level and uneven surfaces.

The invention consists in the peculiar construction and arrangement of parts, as more fully hereinafter described.

Figure 1 is a perspective of my improved roller as at work upon uneven planes. Fig. 2 is a like view of one of the rollers detached.

Like letters refer to like parts in each figure.

In the accompanying drawings, which form a part of this specification, A A A A represent the outside frame, put together in the manner usually employed in such work.

B B B represent three sides of a smaller frame of wood, the fourth or inner side being made of an iron bar, C, with its ends turned at right angles to itself to embrace the ends of the frame to which the bar is secured, as shown at *a*.

A shaft, D, carrying a roller, E, is suitably journaled in the iron bar C and the opposite side of this frame, (of which two are employed, with their journals and rollers,) the iron sides of the frames adjoining each other, for the purpose of bringing the inner ends of the rollers as near together as possible without interfering with their independent action. These two latter-described frames are each hinged or pivotally connected to the girt A' of the first-described frame, to which, also, the tongue F is secured.

Stops G G, secured to the upper rear cor-

ners of the outer frame, and a stop, G', centrally secured to the top of the rear girt of the outer frame, prevent the inner frames from being accidentally thrown above the plane of the top of the outer frame.

When it is desired to use a single roller for any purpose one of the inner frames may be disconnected from the outer frame and employed separately.

I am aware that a land-roller made in sections, each of which is journaled in an independent frame hinged to a cross-bar, has heretofore been employed, and therefore lay no claim to such construction.

In my invention the independent roller-frames are secured within and hinged to an outer frame, whereby the sections are guided by the outer frame and prevented from vibrating, as in the construction disclaimed, and by the employment of an outer frame provision is made for the insertion of stops to prevent the upward movement of the inner independent frames.

What I claim as my invention is—

1. A land-roller made in sections, each section journaled in a horizontal independent frame entirely surrounding it, and the frames secured within and surrounded by an outer frame provided with stops and hinged to the front bar only of each independent frame, substantially as described, and for the purpose set forth.

2. In a land-roller, in combination with the inner roller-carrying frames and the outer frame, the stops G G', substantially as and for the purposes specified.

TONY KAMMERER.

Witnesses:

JOSEPH C. SMITH,
SAMUEL W. WALKER.