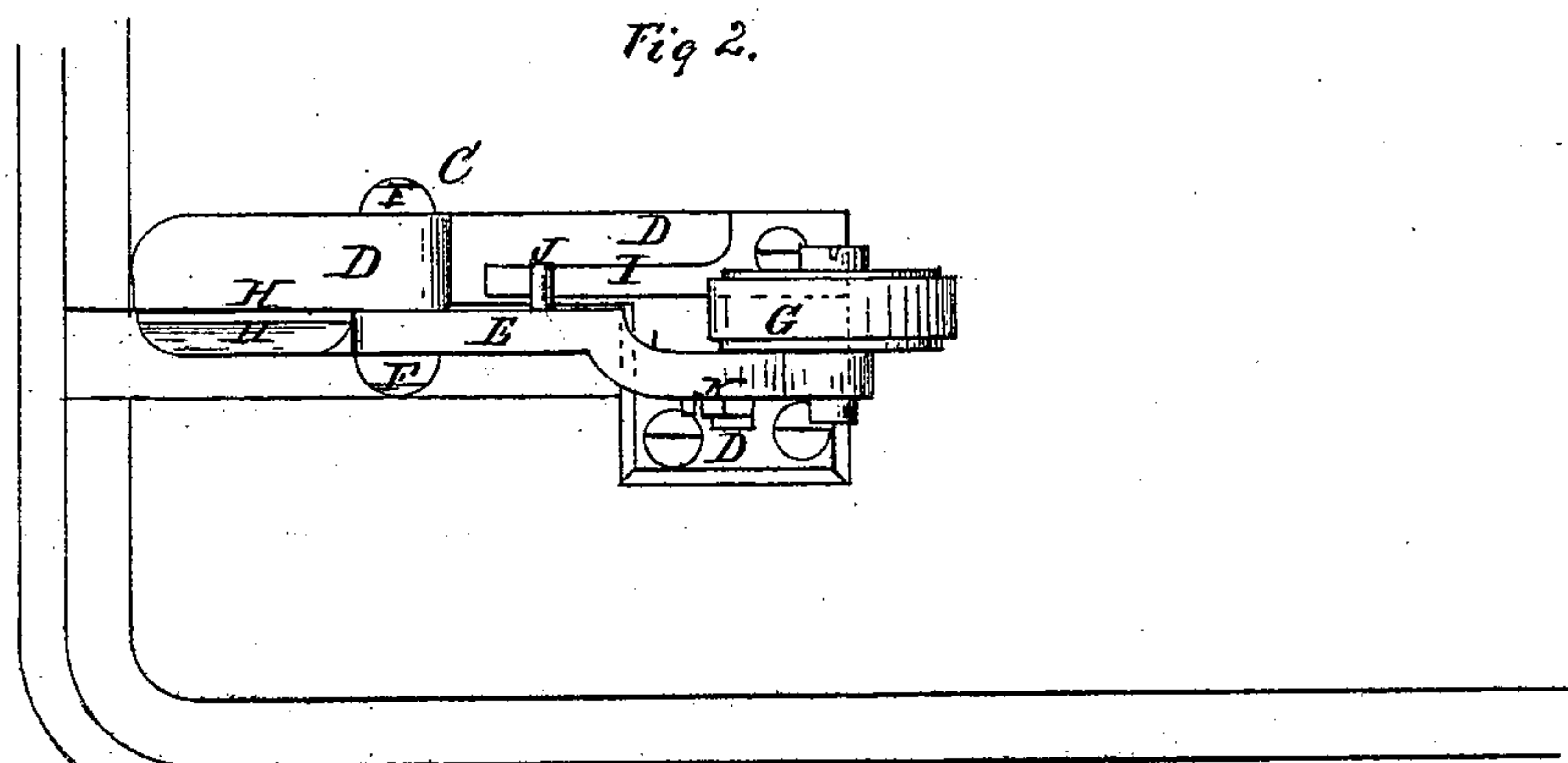
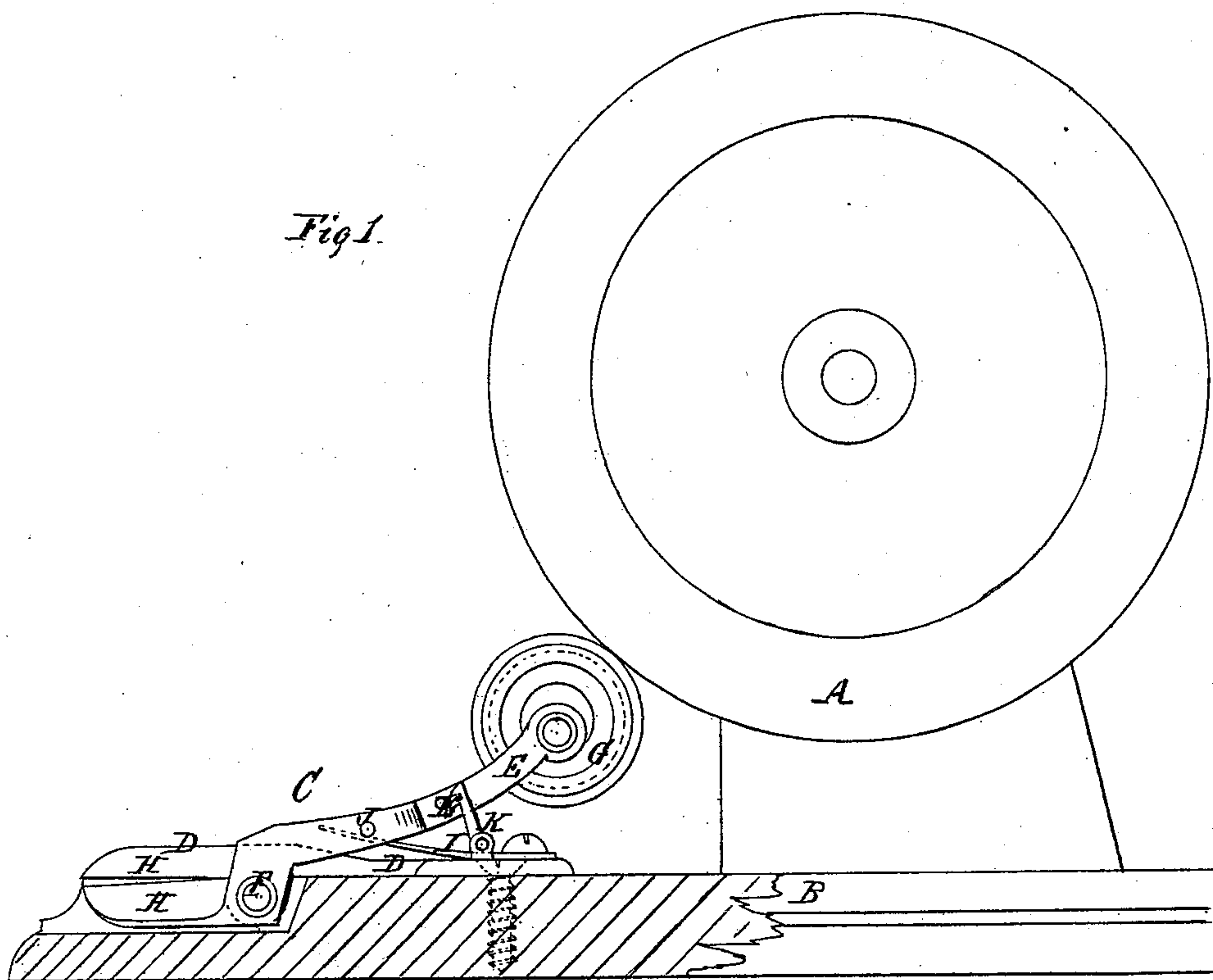


W. E. PRALL & A. B. RAND.
CLOTH CUTTING ATTACHMENT FOR SEWING MACHINES.
No. 109,662. Patented Nov. 29, 1870.



Witness
J. B. Becken.
E. B. Phelps

W. E. Prall
A. B. Rand

United States Patent Office.

WILLIAM EDGAR PRALL, OF WASHINGTON, DISTRICT OF COLUMBIA, AND
ALDEN B. RAND, OF STATEN ISLAND, NEW YORK.

Letters Patent, No. 109,662, dated November 29, 1870.

IMPROVEMENT IN CLOTH-CUTTING ATTACHMENTS FOR SEWING-MACHINES.

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

We WILLIAM EDGAR PRALL, of the city of Washington, in the District of Columbia, and ALDEN B. RAND, of Staten Island, in the county of Richmond and State of New York, have invented a certain new and improved Scissor or Cutting-attachment to Sewing-Machines, of which the following is a specification.

This invention consists in a scissor-like cutting device combined with the ordinary sewing-machine, and operated as herein described, so that the operator can cut as well as sew cloth or other material.

In the annexed drawing, making a part of this specification,

Figure 1 represents a side view of our scissor-attachment, showing it applied to the table of an ordinary sewing-machine, having the hand-wheel above the table.

Figure 2 is a top view of the same.

A represents the usual hand-wheel, and

B the table of an ordinary sewing-machine.

C represents the scissor-attachment, which is composed of a stationary leg, D, secured to the table, and a movable leg, E, which is pivoted to the leg D by means of a fulcrum-pin, F.

The forward ends of these legs are finished with the scissor-like cutting edges H H.

The rear end of the leg E is furnished with a roller, G, which is pivoted excentrically so as to impart by its rotation when brought in contact with the hand-wheel, the required vibrating motion to the leg E to cut the material.

To the leg D is attached a spring, I, which engages a pin or projection, J, on the leg E, and thereby causes

the leg E and its roller G to press against the periphery of the hand-wheel A.

When the hand-wheel of the machine is set in motion the cutting edges of the scissors are rapidly opened and closed, and the operator needs but to draw the material along between the scissor-blades whereby the material is cut in a very rapid manner.

In order to disengage the scissors we employ the hinged hook K, or any similar device, by means of which the movable leg E can be held off the wheel A and prevented from operating whenever desired.

By means of a cap secured to the leg D, or to the table, the scissors may be covered and the material kept from contact with the scissors.

When the attachment is used with or applied to sewing-machines not provided with the hand-wheel A, or having said hand-wheel located in a position not convenient for attaching the scissors, the movable leg E may obtain its motion from any desirable part of the machine having a rotary or vibrating motion, and the said leg is consequently furnished with the required connection to obtain its motion.

Having fully described our invention,

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

The cutting-attachment, constructed as herein shown and described, when combined with and operated from the rotating wheel or shaft of the machine.

W. E. PRALL.
ALDEN B. RAND.

Witnesses:

R. BOECKLEN,
A. T. RAND.