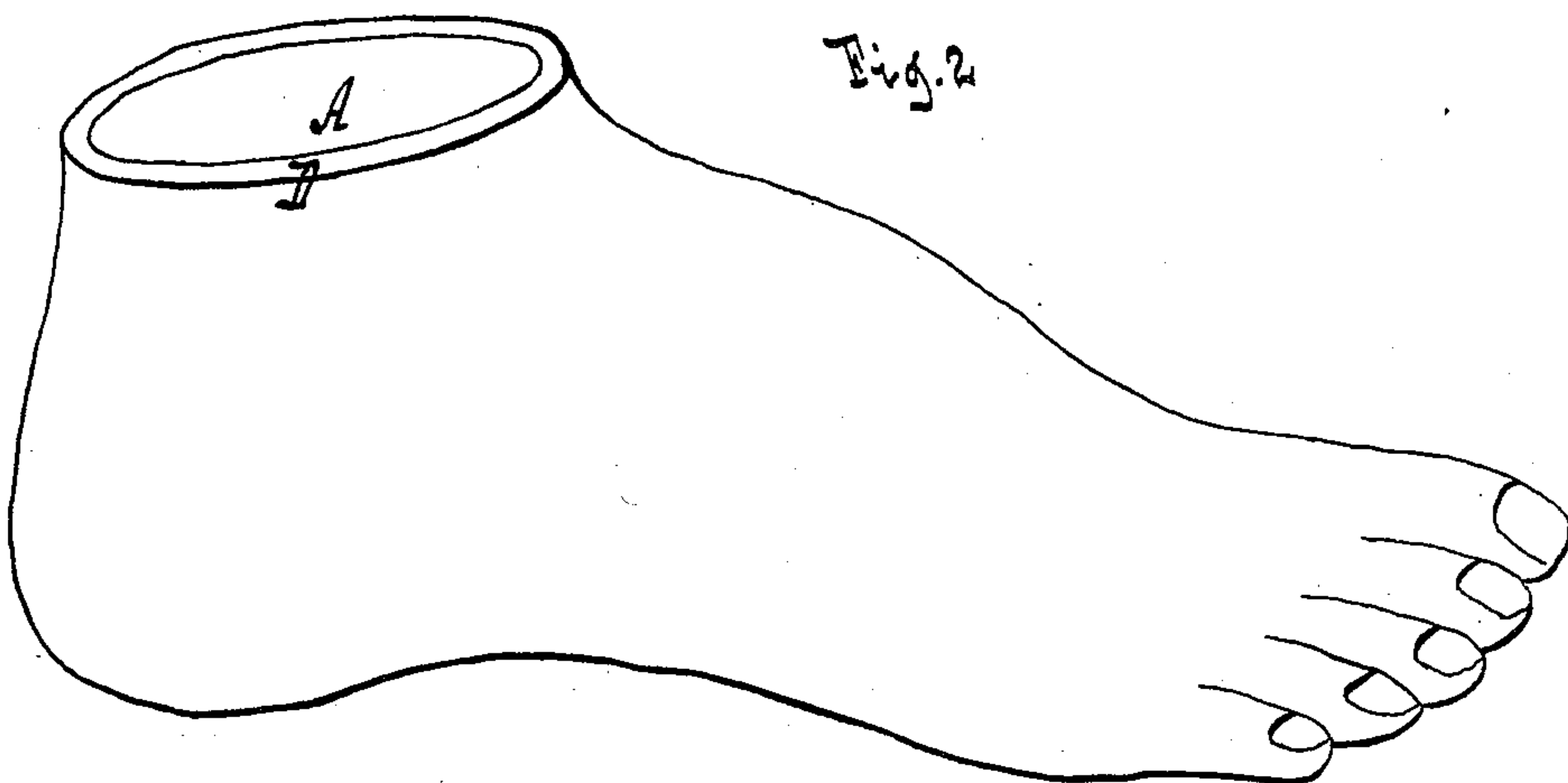
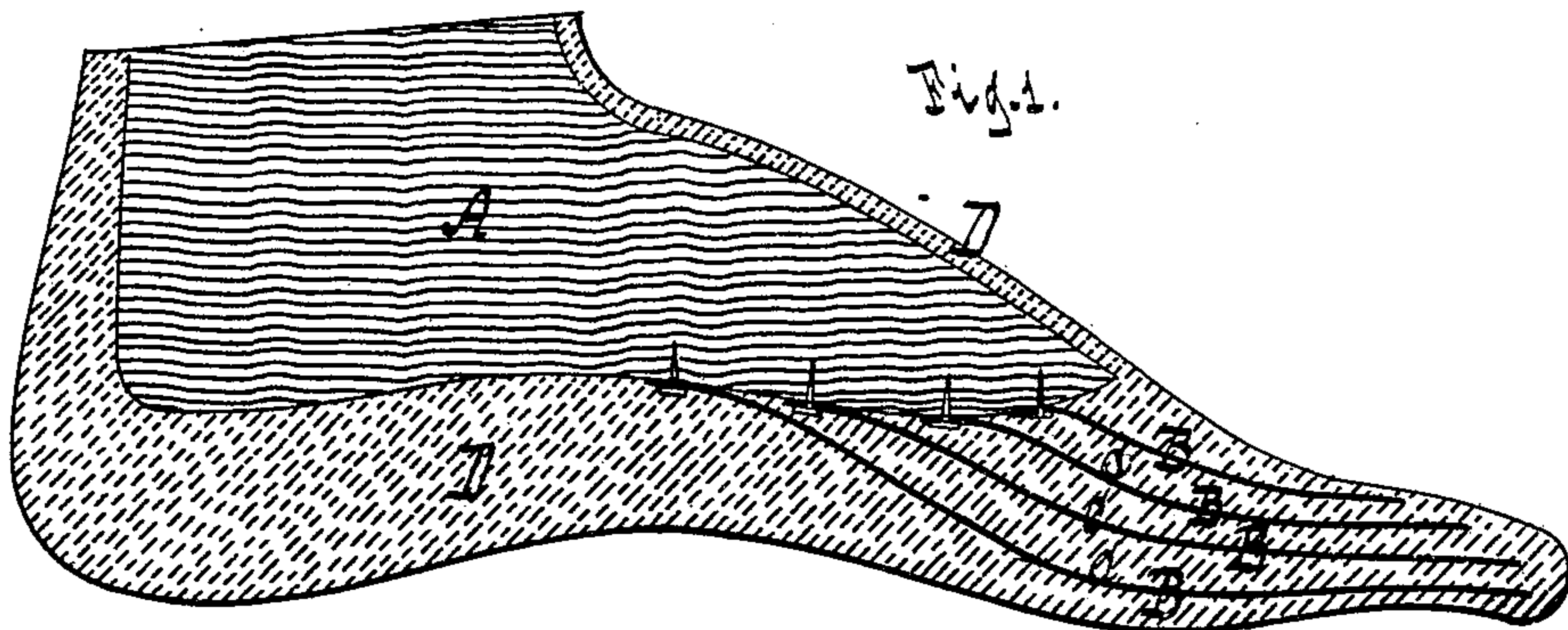


(No Model.)

A. A. MARKS.
Artificial Feet.

No. 234,596.

Patented Nov. 16, 1880.



Witnesses

Otto Aufeland
William Miller

Inventor
Amasa A. Marks.

by
Van Ducton & Haupp
his attorneys

UNITED STATES PATENT OFFICE.

AMASA A. MARKS, OF GREENWICH, CONNECTICUT.

ARTIFICIAL FEET.

SPECIFICATION forming part of Letters Patent No. 234,596, dated November 16, 1880.

Application filed September 29, 1880. (No model.)

To all whom it may concern:

Be it known that I, AMASA A. MARKS, a citizen of the United States, residing at Greenwich, in the county of Fairfield and State of Connecticut, have invented new and useful Improvements in Artificial Feet, of which the following is a specification.

This invention relates to certain improvements on the artificial limbs which I have described in my Patent No. 40,763, dated December 1, 1863; and my present invention consists in the combination, with an artificial foot, of two or more flaps of canvas or other suitable textile material attached to the core of said foot, layers of rubber or other suitable elastic substance interposed between said flaps, and an envelope of rubber inclosing the core and the flaps, for the purpose of imparting sufficient elasticity to the toes to cause them to retain their normal position, and to return to said position whenever they are free to do so.

This invention is illustrated in the accompanying drawings, in which Figure 1 represents a longitudinal section of an artificial foot constructed according to my invention. Fig. 2 is a perspective view of the same.

Similar letters indicate corresponding parts.

In these drawings, the letter A designates the core of an artificial foot, which is made of wood or any other suitable material. To the toe end of this core are secured two or more flaps, B, of canvas or other suitable material, and between these flaps are placed layers C, of india-rubber or other suitable material.

In the example represented by the drawings I have shown four flaps, B, and the spaces between said flaps are filled with soft and elas-

tic india-rubber, such as india-rubber sponge; but instead of using four flaps I can apply only two, and place between them a piece of tempered sheet-steel cut to the required shape. The core A and the flaps B are finally inclosed in an envelope, D, of india-rubber, as described in my Patent No. 40,763.

When the layers C are made of india-rubber I form and vulcanize them at the same time with the envelope D, the flaps B being used to support and strengthen the layers C.

By the combined action of the flaps B and layers C sufficient elasticity is imparted to the toe part of the foot to retain the toes in their normal position, and to cause them to return to this position whenever they are free to do so.

It is obvious that by interposing between the flaps B one or more layers of elastic metal the same effect will be produced.

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

The combination, with an artificial foot, of two or more flaps of canvas or other suitable material attached to the core of said foot, layers of rubber or other suitable elastic substance interposed between said flaps, and an envelope of rubber inclosing the core and the flaps, substantially in the manner and for the purpose herein shown and described.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

AMASA A. MARKS. [L. S.]

Witnesses:

W. HAUFF,

E. F. KASTENHUBER.