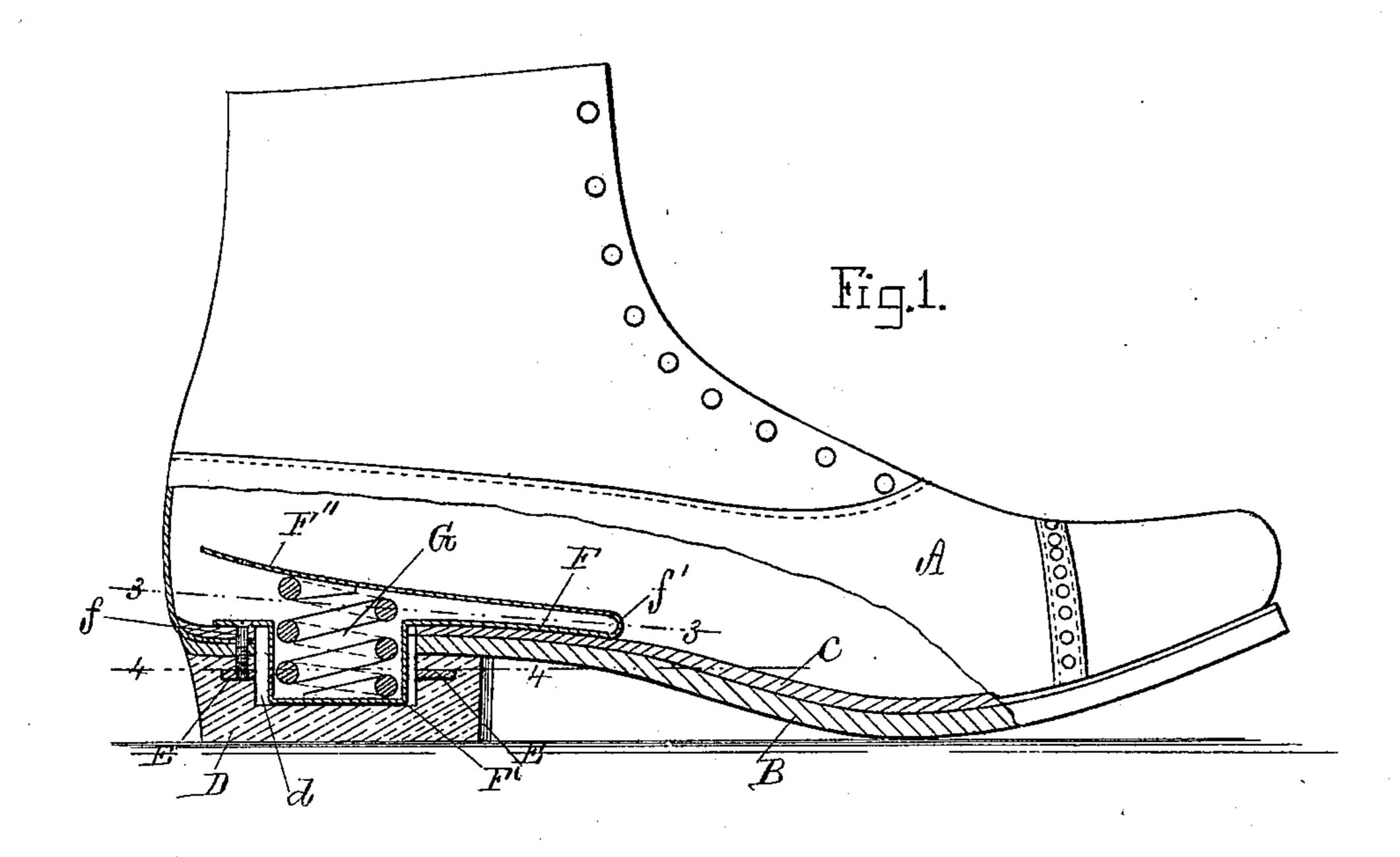
No. 621,384.

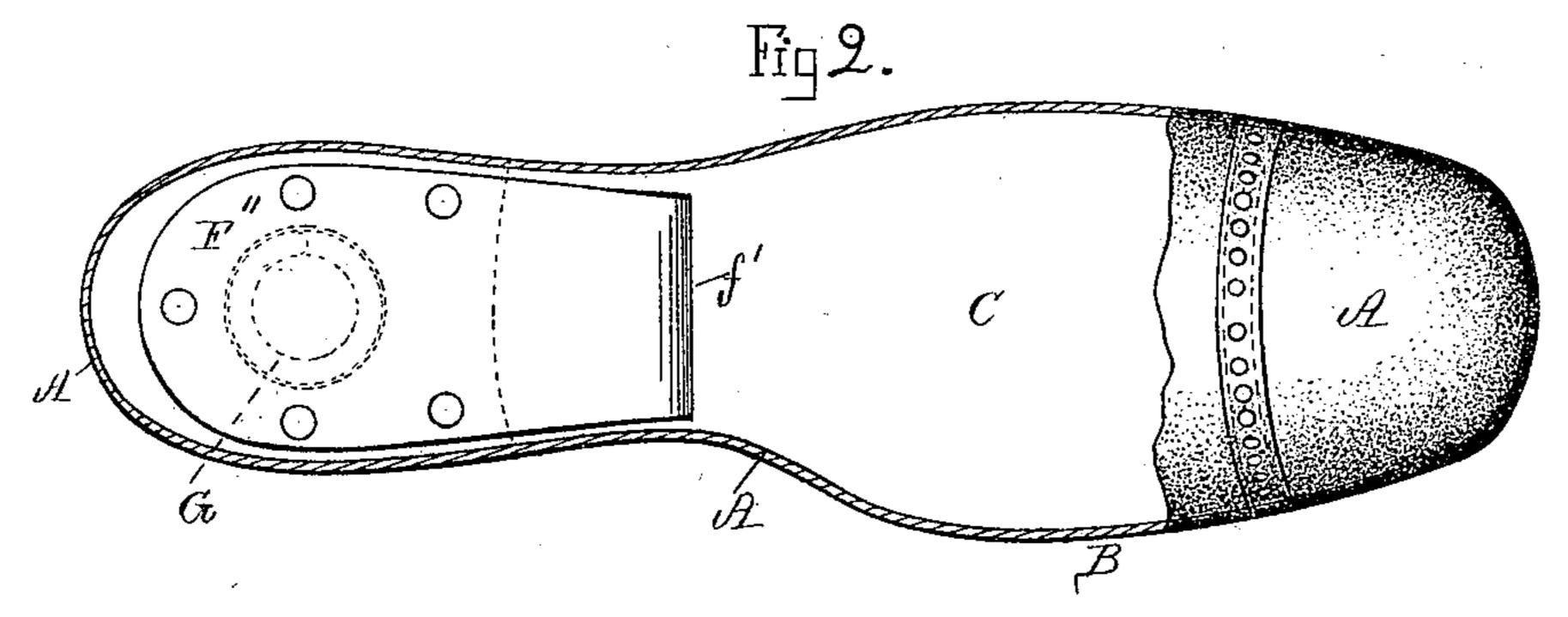
Patented Mar. 21, 1899.

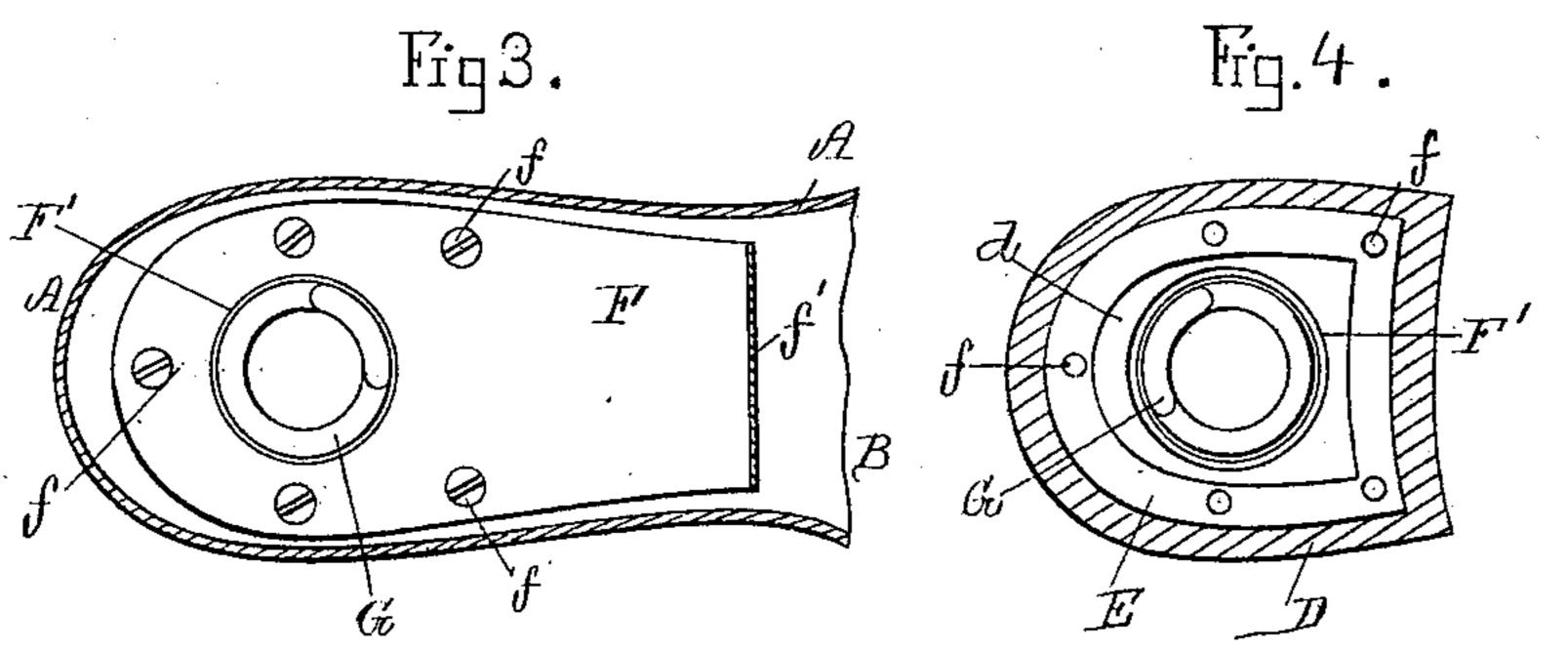
G. H. SWENSON. BOOT OR SHOE HEEL.

(Application filed Mar. 15, 1898.)

(No Model.)



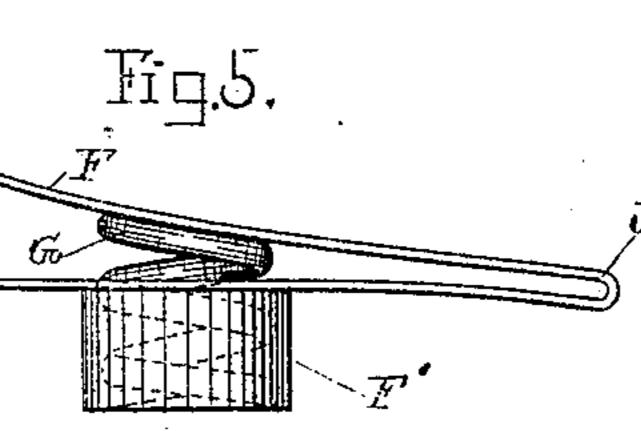




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United States Patent Office.

GEORGE H. SWENSON, OF EVERETT, MASSACHUSETTS.

BOOT OR SHOE HEEL.

SPECIFICATION forming part of Letters Patent No. 621,384, dated March 21, 1899.

Application filed March 15, 1898. Serial No. 673,940. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. SWENSON, a citizen of the United States, residing at Everett, in the county of Middlesex and State of 5 Massachusetts, have invented new and useful Improvements in Boot or Shoe Heels, of which the following is a specification.

This invention relates to improvements in boot and shoe heels of the kind provided with 10 springs for the purpose of affording ease and comfort to the wearer in standing, walking, or jumping, and it is carried out as follows, reference being had to the accompanying

drawings, where—

Figure 1 represents a longitudinal section of a boot or shoe provided with my improved spring-heel, part of said figure being shown in elevation. Fig. 2 represents a top plan view of the invention, showing a portion of the 20 boot or shoe upper in section. Fig. 3 represents a horizontal section on the line 3 3 shown in Fig. 1. Fig. 4 represents a horizontal section on the line 44, also shown in Fig. 1; and Fig. 5 represents a detail side elevation of the 25 yielding heel-supporting device.

Similar letters refer to similar parts wherever they occur on the different parts of the

drawings.

In the drawings, A represents the upper on

30 a boot or shoe, as usual.

B represents the outer sole, C the inner sole, and D the heel in the usual manner.

The heel is preferably made of rubber, although it may, if so desired, be made of leather 35 or other suitable material without departing from the spirit of my invention.

Within the heel D is embedded or otherwise retained a metal skeleton heel-shaped frame

E, as shown in Figs. 1 and 4.

d is a cavity or recess in the upper portion of the heel, as represented in Figs. 1 and 4.

F is a spring-metal plate resting on top of the inner sole C, and it is secured in place thereon by means of screws f f f, the lower 45 ends of which are screwed into screw-threaded perforations in the skeleton frame E, as shown.

In one piece with the spring-metal plate F is made a downwardly-projecting spring-sup-

porting box F', which projects through a per- 50 foration in the inner and outer sole, its lower portion being received in the heel-recess d, as shown in Fig. 1.

The spring-metal plate F projects forward to about the middle of the shank portion of 55 the boot or shoe, as shown in Fig. 1, and at such place, as shown at f', it is bent backward as a yielding heel-support F", between which and the cup F' is located a coiled spring G, as shown in the drawings.

By having the metal cup F' made in one piece with the stationary plate F and the spring G arranged in said cup underneath the yielding heel-support F" and the plate F firmly secured to the inner sole, outer sole, 65 and heel no wear takes place on the upper portion of the heel D during the compression of the yielding heel-supporting device.

The invention is very simple in construction, can readily be applied to boots and shoes, 70 and will serve as an effective and durable device for affording perfect ease and comfort to the wearer in walking, standing, &c.

What I wish to secure by Letters Patent and claim is—

1. In a boot or shoe, a recessed heel of rubber or other suitable material combined with a metal skeleton frame attached thereto, a spring-metal plate F secured to the said metal frame and having made in one piece with it 80 a spring-retaining cup F', a rearwardly-bent supporting-plate F", and a coiled spring G interposed between the latter and the said cup, substantially as and for the purpose set forth.

2. In a boot or shoe, a heel of rubber or other 85 suitable material combined with a metal plate F secured to the heel and having made in one piece a spring-retaining cup F', a rearwardlybent supporting-plate F" and a coiled spring G interposed between the latter and the said cup, 90 substantially as and for the purpose set forth.

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

GEORGE H. SWENSON.

Witnesses:

ALBAN ANDRÉN, Karl A. Andrén.