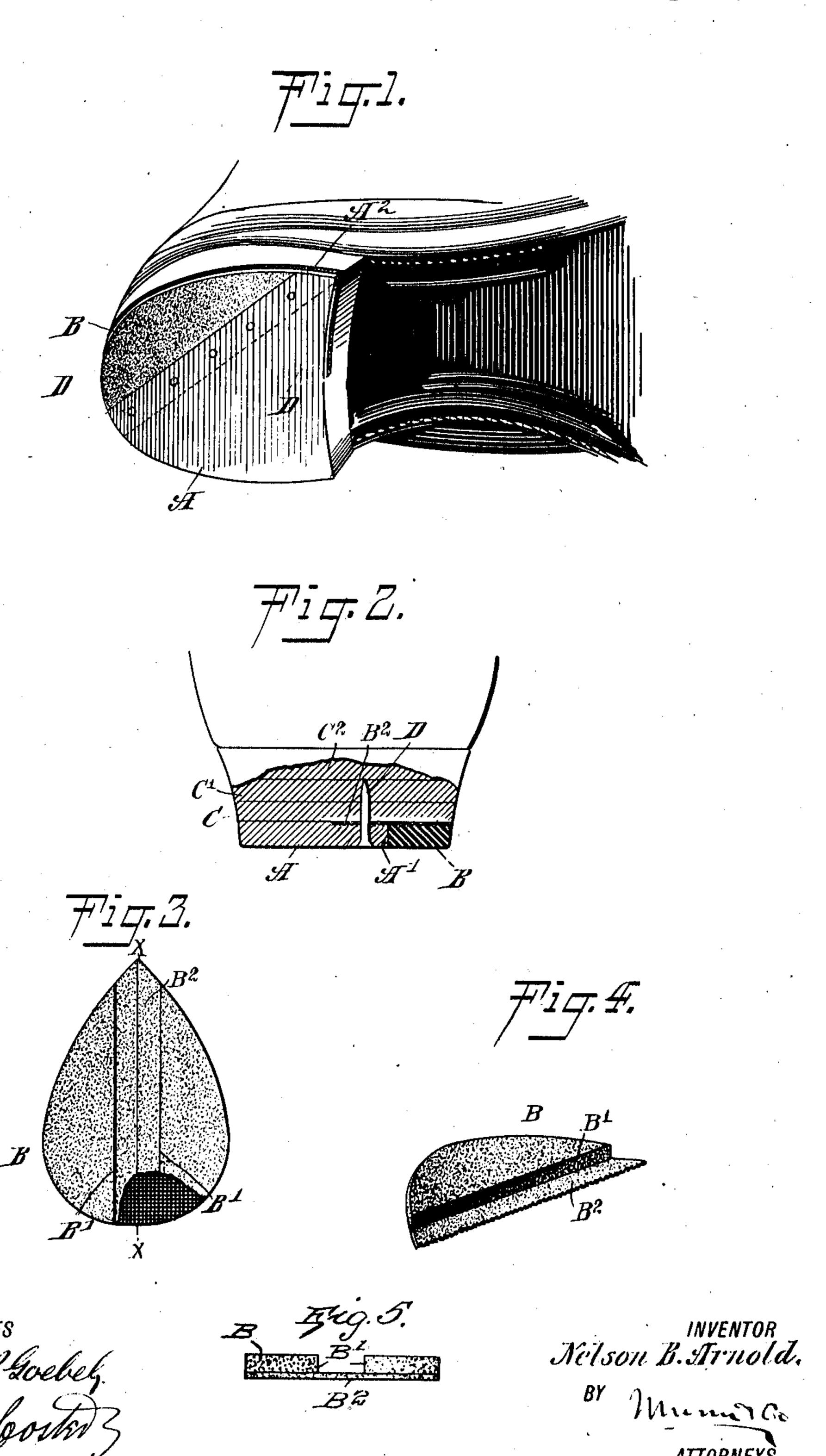
N. B. ARNOLD. BOOT OR SHOE HEEL. APPLICATION FILED NOV. 17, 1910.

990,094.

Patented Apr. 18, 1911.



UNITED STATES PATENT OFFICE.

NELSON B. ARNOLD, OF NEW YORK, N. Y.

BOOT OR SHOE HEEL.

990,094.

Specification of Letters Patent.

Patented Apr. 18, 1911.

Application filed November 17, 1910. Serial No. 592,814.

To all whom it may concern:

Be it known that I, Nelson B. Arnold, a citizen of the United States, and a resident of the city of New York, borough of Brook-5 lyn, in the county of Kings and State of New York, have invented a new and Improved Boot or Shoe Heel, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved boot or shoe heel having a tread partly made of leather and partly of rubber to prevent the wearer of the boot or shoe from slipping, to relieve the 15 jar incident to walking, and to permit convenient removal of the rubber portion of the tread and location of the same at that part of the heel usually worn out first. For the purpose mentioned use is made of a rubber 20 plate approximately in the form of a heel lift and having oppositely raised portions spaced equidistantly from the median line of the plate to permit of cutting the plate along the median line for forming rubber 25 treads for the rear outer heel portions of boots or shoes.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of the boot or shoe heel as applied; Fig. 2 is a rear end elevation of the same, parts being shown in section; Fig. 3 is an inverted plan view of a double rubber plate to be cut in two in a lengthwise direction for forming the rubber plates of a pair of shoes or boots; Fig. 4 is a perspective view of the single rubber plate and Fig. 5 is an edge view of the double rubber plate.

It is well known that boot and shoe heels are usually worn down at the rear outer portion of the heel, and in order to provide a soft and removable tread at that rear outer portion to take up the jar and jolt incident to walking, and to permit of readily removing the worn down part, use is made of a heel tread, presently to be described in detail.

of a number of layers or lifts, of which the top lift forms the tread, and consists of a leather top lift A and a rubber plate B, while the remaining lifts C, C', C² are preferably formed of leather. The top lift A has a cut-out portion, the wall or cut A' of

each extending diagonally in a rearward direction from the outer side of the heel to a point at the rear of the heel a distance from the middle, as plainly indicated in Fig. 1. 60 The rubber plate B is shaped to fit the cutout portion of the top lift A, and for this purpose the rubber plate has a straight inner wall B' abutting against the wall A', and a flange B² extending between the lift 65 A and the next following one C, as shown in Fig. 2. The outer side of the rubber plate B is rounded to correspond to the rear outer face of the heel, as will be readily understood by reference to the drawings. Nails 70 or pegs D are driven through the top lift A and the flange B² into the remaining lifts C, C', C² of the boot or shoe heel, so that the top lift is fastened in place on the heel and at the same time the lift A and the rub- 75 ber plate B are held abutting at their adjacent walls or edges. Cement or the like is used to fasten the rubber plate B in position on the lifts A and C.

It is understood that by the arrangement 80 described, the rubber plate B occupies the rear outer portion of the tread of the heel, and as this tread portion is worn down first, it is evident that the rubber plate B is worn instead of the leather parts of the heel, and 85 this rubber plate can be readily renewed when worn out by a new one, it only being necessary to remove the bottom lift A by withdrawing the nails or pegs D and placing a new rubber plate B in position by the 90 use of the nails or pegs D.

In practice, a double rubber plate, such as shown in Fig. 3, is manufactured, to permit the shoemaker or other person to readily cut this plate in two parts along the median 95 line x-x, so as to provide two single rubber plates for the heels of a pair of boots or shoes, it being understood that the single plates cut form the double plate are right and left for the heels of the right and left 100 shoes or boots. The double rubber plate preferably consists of a layer of canvas, on which are arranged the raised tread portions of rubber, located equidistant from the median line x-x, so that when the double 105 plate is cut along the line x-x, the cut portions of the canvas layer projecting from the raised portions form the nailing flanges B². The canvas is thinly coated with rubber at the under side and the portions form- 110 ing the nailing flanges. In practice, the double rubber plates are made of a few dif-

ferent sizes to conform to the sizes of the heels on which they are intended to be used.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

As an article of manufacture, a rubber plate approximately in the form of a heel lift, and having a thin bottom layer and raised rubber tread portions, the latter being spaced equidistant from the median line of the bottom layer to permit of cutting the bottom layer along the median line for

forming rubber treads for the rear outer heel portions of a pair of boots or shoes, each rubber tread having a nailing flange project- 15 ing laterally from the raised tread portion. In testimony whereof I have signed my

name to this specification in the presence of

two subscribing witnesses.

NELSON B. ARNOLD.

Witnesses:

THEO. G. HOSTER, PHILIP D. ROLLHAUS.