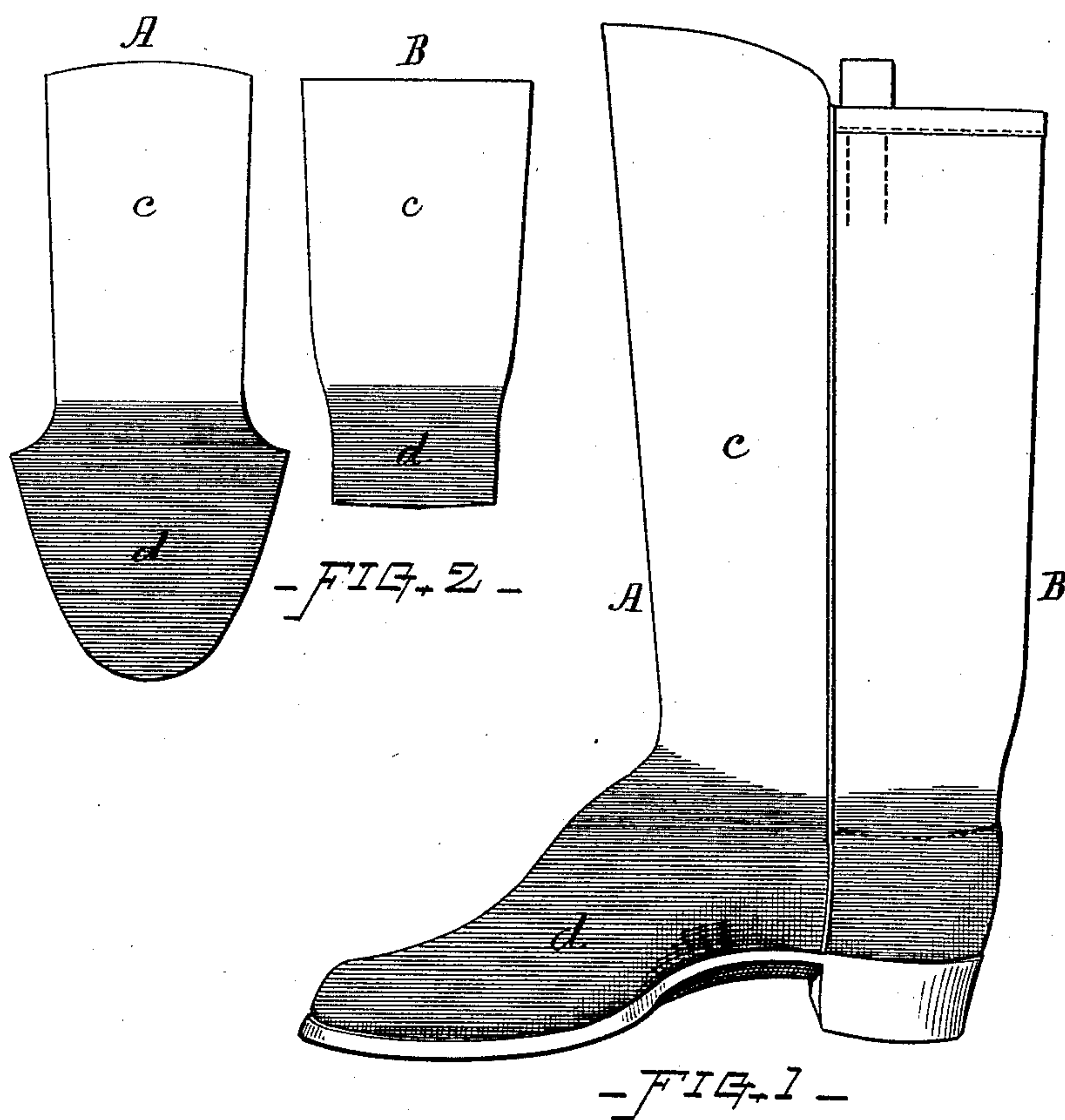


(No Model.)

C. C. HOUGHTON.
BOOT.

No. 411,032.

Patented Sept. 17, 1889.



Witnesses-

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UNITED STATES PATENT OFFICE.

CHARLES C. HOUGHTON, OF WORCESTER, MASSACHUSETTS.

BOOT.

SPECIFICATION forming part of Letters Patent No. 411,032, dated September 17, 1889.

Application filed April 10, 1889. Serial No. 306,661. (No model.)

To all whom it may concern:

Be it known that I, CHARLES C. HOUGHTON, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Boots, of which the following, together with the accompanying drawings, is a specification sufficiently full, clear, and exact to enable persons skilled in the art to which this invention appertains to make and use the same.

The object of my present invention is to provide a legged boot manufactured from oiled leather, and in which the top or leg will be light and dry, free from oil, and clean inside, while the leather in the foot portions remains in its original oiled condition. This object I attain by a boot such as described and hereinafter claimed.

In the drawings, Figure 1 is a side view of a boot, illustrating the nature of my invention. Fig. 2 shows the front and back portions of such a boot, drawn on a smaller scale.

My improved article of manufacture comprises a boot wherein the leg or top *c* is cut or formed integral with the foot portion *d* in the front, or in both the front and back of the upper, and is made of dry leather or stock without oil, while the foot portion *d* of the boot-upper is of oiled leather or of stock in its normally oiled condition, the two portions *c* and *d* being integral and continuous from the bottom of the foot to the top of the leg, thus making a new and very desirable kind of boot.

This boot is made by a process of manufacture in which, as one step of the process, the boots or parts thereof are subjected at a certain stage and in a peculiar manner to a treatment with naphtha or other suitable solvent, whereby the leg of the boot after it has been cut out has the oil extracted therefrom for any given distance down the leg.

The preferable method of producing my improved boots is to first cut out the parts from oiled leather in the usual manner and forms for making the fronts A and backs B. These parts are then singly or in any conven-

ient numbers strung upon a wire, cord, or other support and suspended in a tank or receptacle containing naphtha or other suitable oil solvent in such manner that the leg portion *c* will be submerged, while the foot portion *d* will not be submerged, and in this position the leather is allowed to remain and soak some twenty-four hours, (more or less,) or until the oil or a sufficient amount thereof has become extracted from the submerged portions *c*, while the oil in the portions *d* is unaffected. These parts are then made up into boots, bottomed, and finished up by the usual processes, producing a boot the lower part or foot of which contains the oil originally in the leather, while the part above is practically without oil, light and dry, so that it will not collect dirt or dust and will not soil the clothing, thus affording a boot which is very desirable for the wearer, and which is manufactured at a price or cost not materially increased, as the cost of extracting the oil is comparatively but a trifle.

If preferred, the oil can be extracted from the top or legs of the boot after it is fitted or stitched, or after the boot has been made up or bottomed. In the latter cases the portions from which oil is to be extracted are suspended in inverted position in a vessel containing the naphtha or other oil solvent with the part *c* submerged until the oil contained in that portion is destroyed or taken from the boot, while the foot portion, remaining above the liquid, is unaffected and the leather of the foot remains filled with oil the same as when manufactured.

This invention is applicable to the different styles of high-topped boots made from calf, veal calf, kip, and other kinds of oiled leathers usually employed for boots.

The extracting can be applied to both the fronts and backs of leg-boots, or to either front or back separately, as in any case desired.

By this invention the legs of boots made from heavily-oiled hemlock-tanned leather have the cleanness and appearance of nice oak-tanned stock throughout the leg and at

the same time have in the foot the advantages closeness of grain and fineness of appearance of the hemlock-leather.

I claim as my invention to be secured by
5 Letters Patent—

A boot having an upper the parts of which are severally formed with their foot and leg portions integral, the leg or top part of said boot being of dry or unoiled stock and the

foot part of oiled stock or leather in its original oiled condition, substantially as set forth. 10

Witness my hand this 8th day of April, A.
D. 1889.

CHARLES C. HOUGHTON.

Witnesses:

CHAS. H. BURLEIGH,
ELLA P. BLENUS.