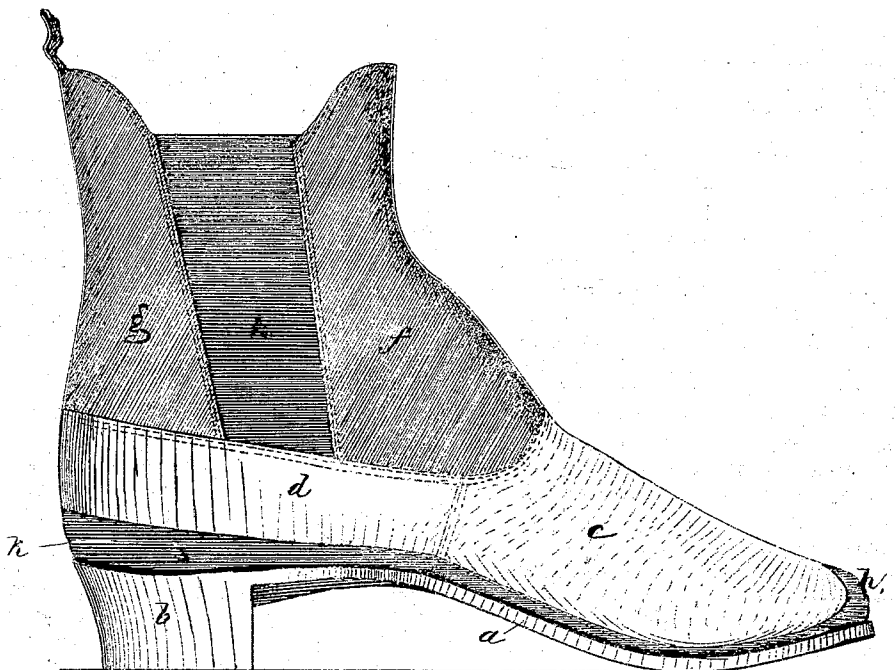


H. ROGERS & L. FELTON.

Boots and Shoes.

No. 135,591.

Patented Feb. 4, 1873.



Witnesses.
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Inventors.
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By their attys.
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UNITED STATES PATENT OFFICE.

HOMER ROGERS, OF SUDBURY, AND LEWIS FELTON, OF MARLBOROUGH,
ASSIGNORS TO THEMSELVES AND STEPHEN MOORE, OF SUDBURY,
MASSACHUSETTS.

IMPROVEMENT IN BOOTS AND SHOES.

Specification forming part of Letters Patent No. 135,591, dated February 4, 1873.

To all whom it may concern:

Be it known that we, HOMER ROGERS, of Sudbury, and LEWIS FELTON, of Marlborough, all in the county of Middlesex and State of Massachusetts, have invented an Improvement in the Manufacture of Boots and Shoes; and we do hereby declare that the following, taken in connection with the drawing which accompanies and forms part of this specification, is a description of our invention sufficient to enable those skilled in the art to practice it.

In the manufacture of boots and shoes the supply of leather is not equal to the amount required in their construction, if made wholly of leather. For this reason, factitious leathers and other materials have to be used to a greater or less extent to furnish stock for those parts which are required more particularly for filling, and are not exposed to wear—wood, metal, leather board, rubber, and paper being used to a great extent for counters, shanks, heel-filling, soles, and inner soles.

Our invention relates to the construction of uppers, or to a method of forming uppers without using leather exclusively, and for this purpose we use leather for those parts of the upper particularly subjected to strain and wear, and for the rest paper board, and preferably that class of paper board known as leather board. Our invention consists, primarily, in a boot or shoe having part of its upper made of paper board.

The drawing represents a boot having the respective parts arranged with reference to a construction embodying our invention, the drawing showing the boot in side elevation.

a denotes the sole; *b*, the heel; *c*, the vamp; and *d*, the quarter; *f*, the front or leg piece; *g*, the back; *h*, the elastic between the pieces *f* and *g*. The main vamp-piece *e*, extending over the top of the foot, and the quarter *d*, extending around the heel, are made of leather board, but at the toe the leather board is shown as connected to the sole by a leather tip, *h*, at each side by a leather piece, *i*, and at the heel by a leather heel-piece, *k*, the pieces *h i k* forming the parts of the upper most subject to wear and strain, while the leather-board or paper-board pieces form those portions of the upper less subject to strain and wear, the leather board forming a covering amply strong and water-proof.

By this construction a very large and important saving is effected in the cost of a boot or shoe, and the construction is as enduring as if made wholly of leather.

We claim—

1. A boot or shoe vamp or quarter made of leather and leather board, the leather being that part which is to be united to the sole and the leather-board portion being the remainder of the vamp or quarter.

2. A boot or shoe having its upper made partly of ordinary leather, as described, and partly of leather board, the leather board and leather being united edge to edge.

HOMER ROGERS.
LEWIS FELTON.

Witnesses:

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