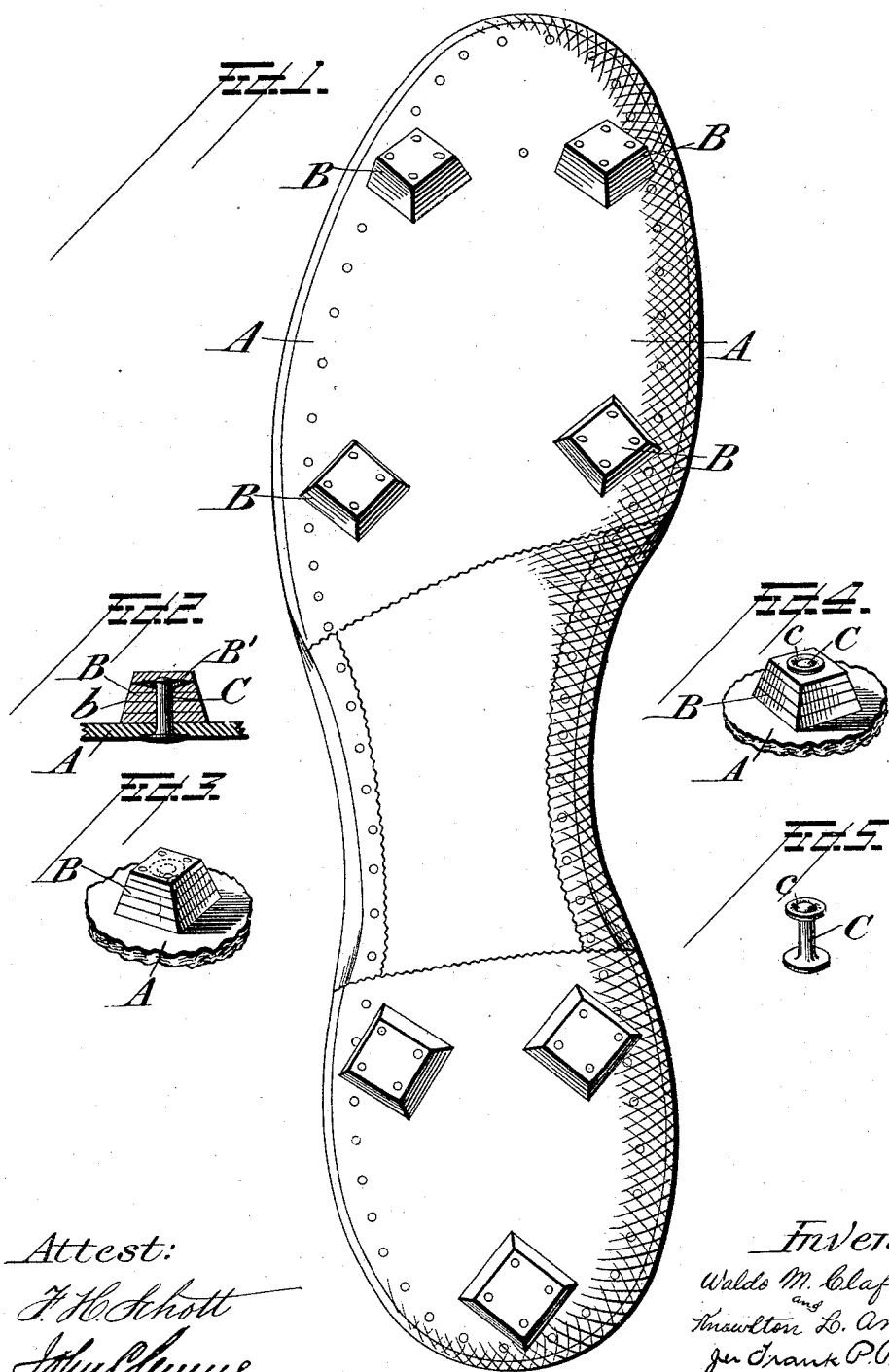


(No Model.)

W. M. CLAFLIN & K. L. AMES.
SHOE.

No. 487,250.

Patented Dec. 6, 1892.



Attest:

J. H. Schott
Attorney

Inventors

Waldo M. Claflin
and
Amawltion L. Ames.
per *Frank P. Richards*
Attorney

UNITED STATES PATENT OFFICE.

WALDO M. CLAFLIN, OF PHILADELPHIA, PENNSYLVANIA, AND KNOWLTON L. AMES, OF CHICAGO, ILLINOIS.

SHOE.

SPECIFICATION forming part of Letters Patent No. 487,250, dated December 6, 1892.

Application filed August 7, 1891. Serial No. 402,060. (No model.)

To all whom it may concern:

Be it known that we, WALDO M. CLAFLIN, residing in the city and county of Philadelphia, in the State of Pennsylvania, and KNOWLTON L. AMES, residing in Chicago, in the State of Illinois, citizens of the United States, have jointly invented certain new and useful Improvements in Athletic or Sporting Shoes; and we do hereby declare that the following is a full, clear, and exact description of the same.

Our invention relates to that class of shoes used in athletic sport or exercise, and although more particularly designed for use in the game of foot-ball is also applicable for use in all field or gymnasium sports.

Our invention consists of an athletic or sporting shoe the sole and heel whereof are provided with pyramidal-shaped studs or projections formed of leather lifts, said studs being secured to the sole and heel by rivets passing entirely through the latter and through the studs, the heads of the rivets being on the inside of the shoe and the outer ends of the rivets projecting through the studs, where they are clinched and provided with an outer lift or protecting-piece secured to the stud, substantially as described. Where, as in foot-ball, it is desirable that no metal shall be exposed, we cover the end of the rivet at the end of the stud or projection opposite to the sole with a covering or layer of leather fastened to the end of the projection by brads or other suitable fastening.

Reference now being had to the accompanying drawings, Figure 1 represents the sole of the shoe turned toward the observer, A A representing the leather sole, and B B the leather studs or projections, said studs being pyramidal in shape and formed of superposed

lifts or layers *b*, as represented in Figs. 2 and 3 of the drawings.

Fig. 2 represents a cross-section of one of the studs or leather projections, B representing the stud, C the metal rivet, A the sole, and B' the leather-surface lift forming a covering or layer over the upset end of the rivet.

Fig. 3 represents the leather stud or projection as it appears with the end of the rivet covered, and Fig. 4 the leather stud or projection with the end of the rivet uncovered.

Fig. 5 represents the metal rivet.

As shown in the drawings, the solid head of the rivet is on the inside, the rivet passing clear through the sole or heel and the projection and its outer end being upset or clinched on the outside of the stud, a suitable washer, as *c*, being used, if preferred.

What we desire to claim and secure by Letters Patent is—

As an improved article of manufacture, an athletic or sporting shoe the sole and heel whereof are provided with pyramidal-shaped studs or projections formed of leather lifts, said studs being secured to the sole and heel by rivets passing entirely through the latter and through the studs, the heads of the rivets being on the inside of the shoe and the outer ends of the rivets projecting through the studs, where they are clinched and provided with an outer lift or protecting-piece secured to the stud, substantially as described.

WALDO M. CLAFLIN.

KNOWLTON L. AMES.

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