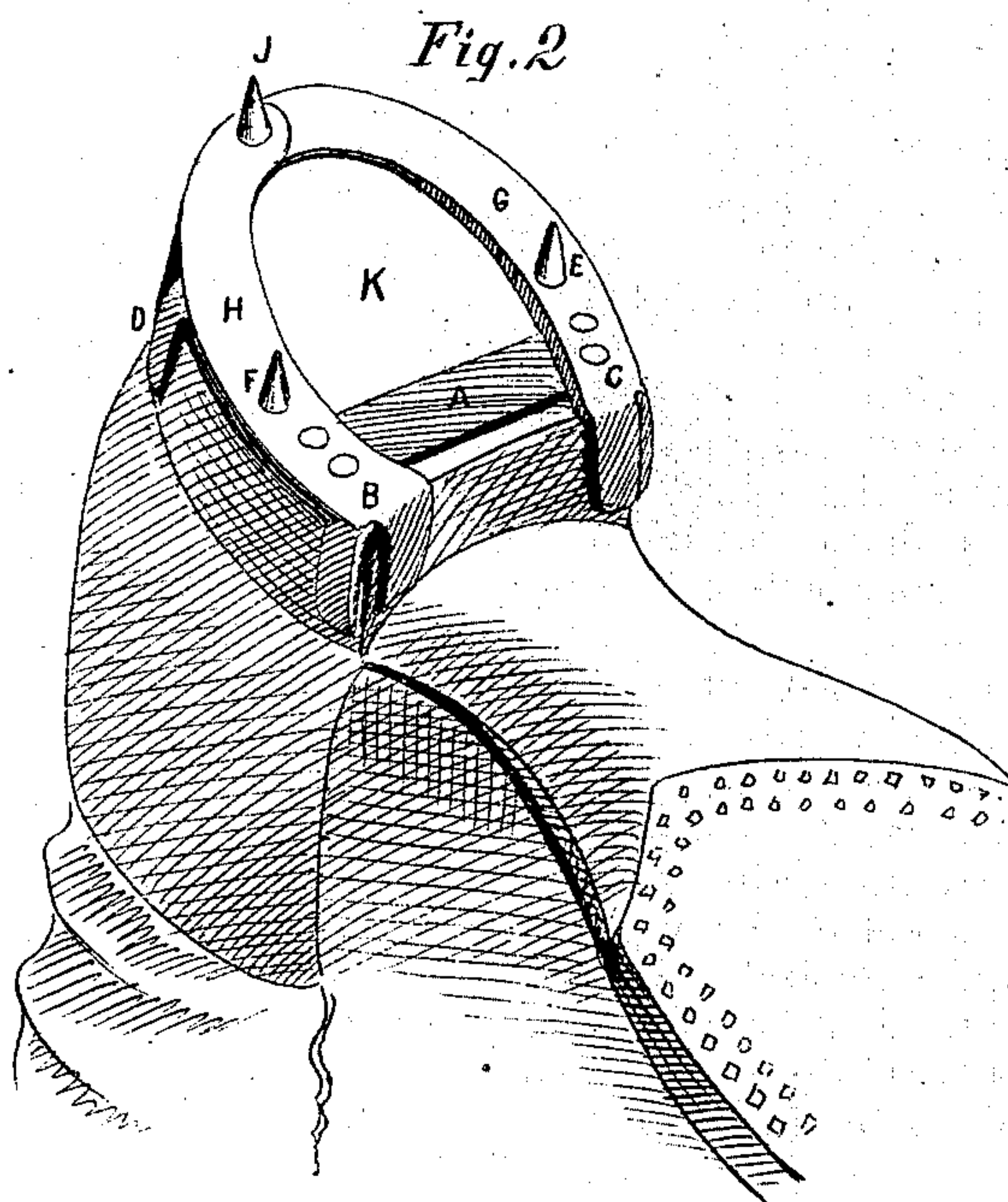
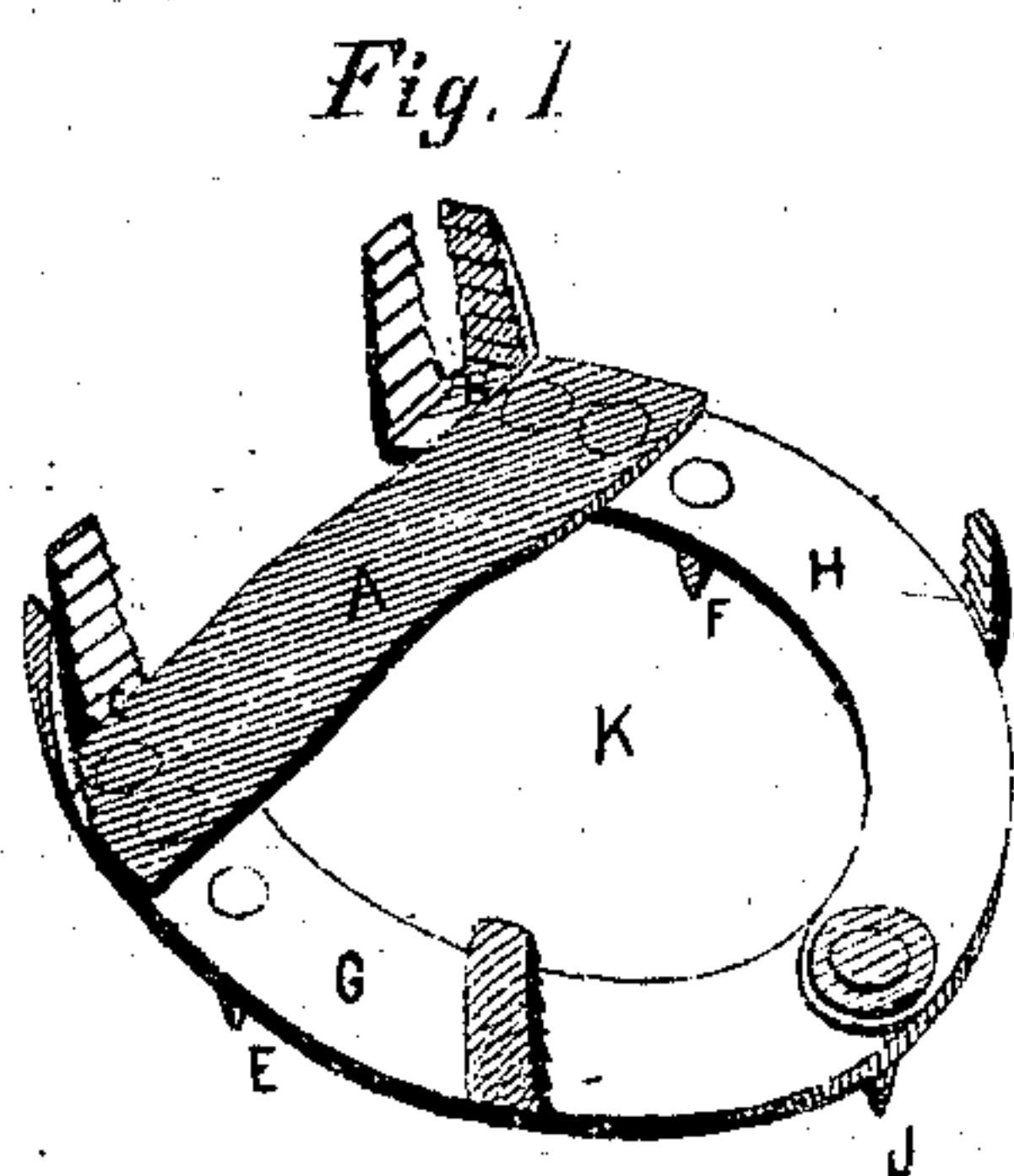


# *E. S. Ellis' Foot Safe.*

116575

PATENTED JUL 4 1871



Witnesses,

*H. Smith*  
*W. Henderson*

Inventor,

*Edward S. Ellis*  
*per*  
*Henry H. Taylor*  
*Att'y.*

# UNITED STATES PATENT OFFICE.

EDWARD S. ELLIS, OF TRENTON, NEW JERSEY.

## IMPROVEMENT IN ICE-CREEPERS.

Specification forming part of Letters Patent No. 116,575, dated July 4, 1871.

*To all whom it may concern:*

Be it known that I, EDWARD S. ELLIS, of Trenton, in the county of Mercer and State of New Jersey, have invented a new and useful Improvement in Ice-Creepers or Foot-Safes; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawing which forms a part of this specification and to the letters of reference marked thereon.

Figure 1 is a plan of my device. Fig. 2 represents an ice-creeper or foot-safe as attached to a shoe-heel.

My invention consists of a metallic plate provided with milled or ribbed clamps, which hug the heel of a shoe or boot, and secured thereto by means of a rubber strap, the plate having pointed conical projections which prevent the slipping of the foot on ice or pavement.

A is a strap, composed of rubber or other elastic material, attached by means of rivets to the plate G H. This plate is composed of two parts, G and H, united by means of the spike J pass-

ing through the ends thereof. Said plate is provided with the ribbed or milled clamps B C D, which fasten the ice-creeper upon the heel K by means of the strap A. The pointed conical projections E F J prevent the slipping of the foot on ice or pavement. This arrangement is more simple in adjustment, and a greater preventive from slipping than any other invention now in use.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

An ice-creeper or foot-safe provided with the elastic strap A, the plate G H, clamps B C D, and the pointed projections E F J, when arranged and constructed as herein described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDWARD S. ELLIS.

Witnesses:

D. T. PITTINGER,  
LOUIS C. GASSON.