

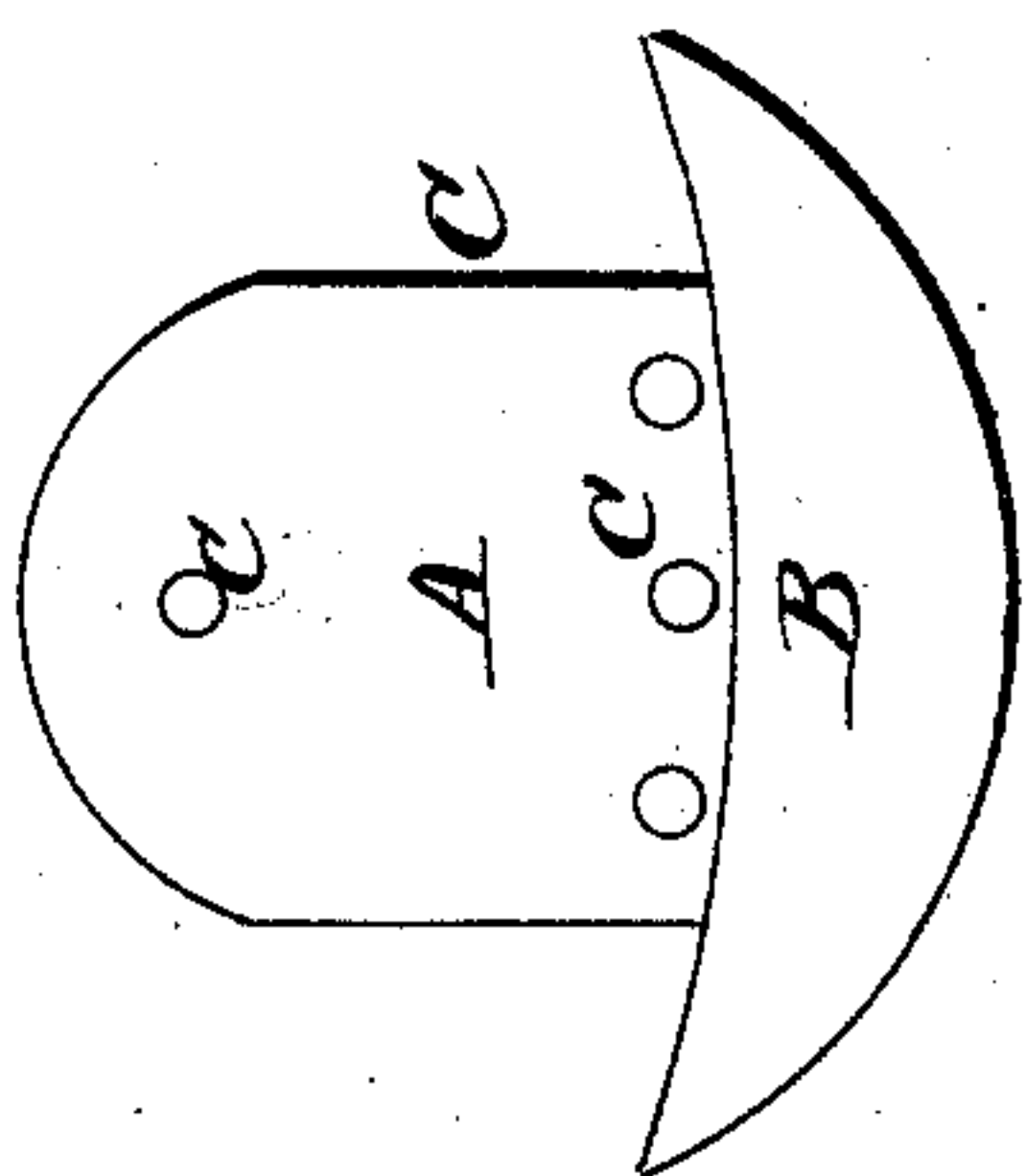
*G. Beatty.*

*Boot and Shoe Toe Plate.*

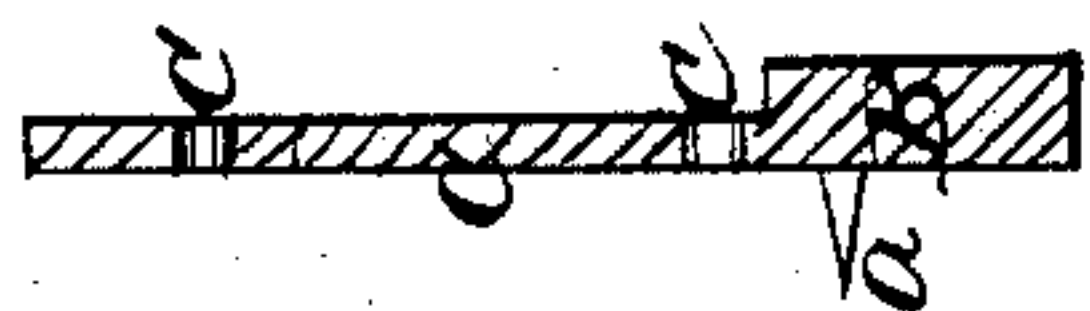
*N<sup>o</sup> 94,382.*

*Patented Aug. 31, 1869.*

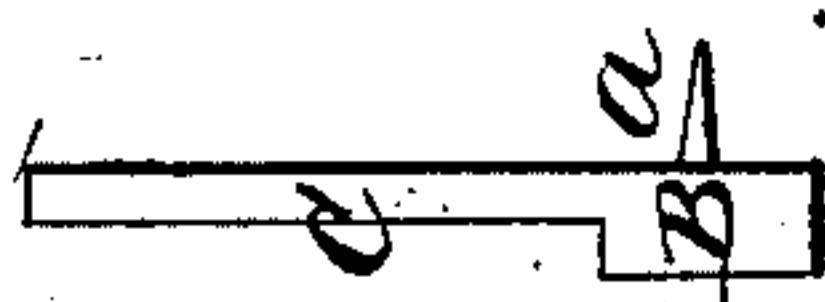
*Fig. 4.*



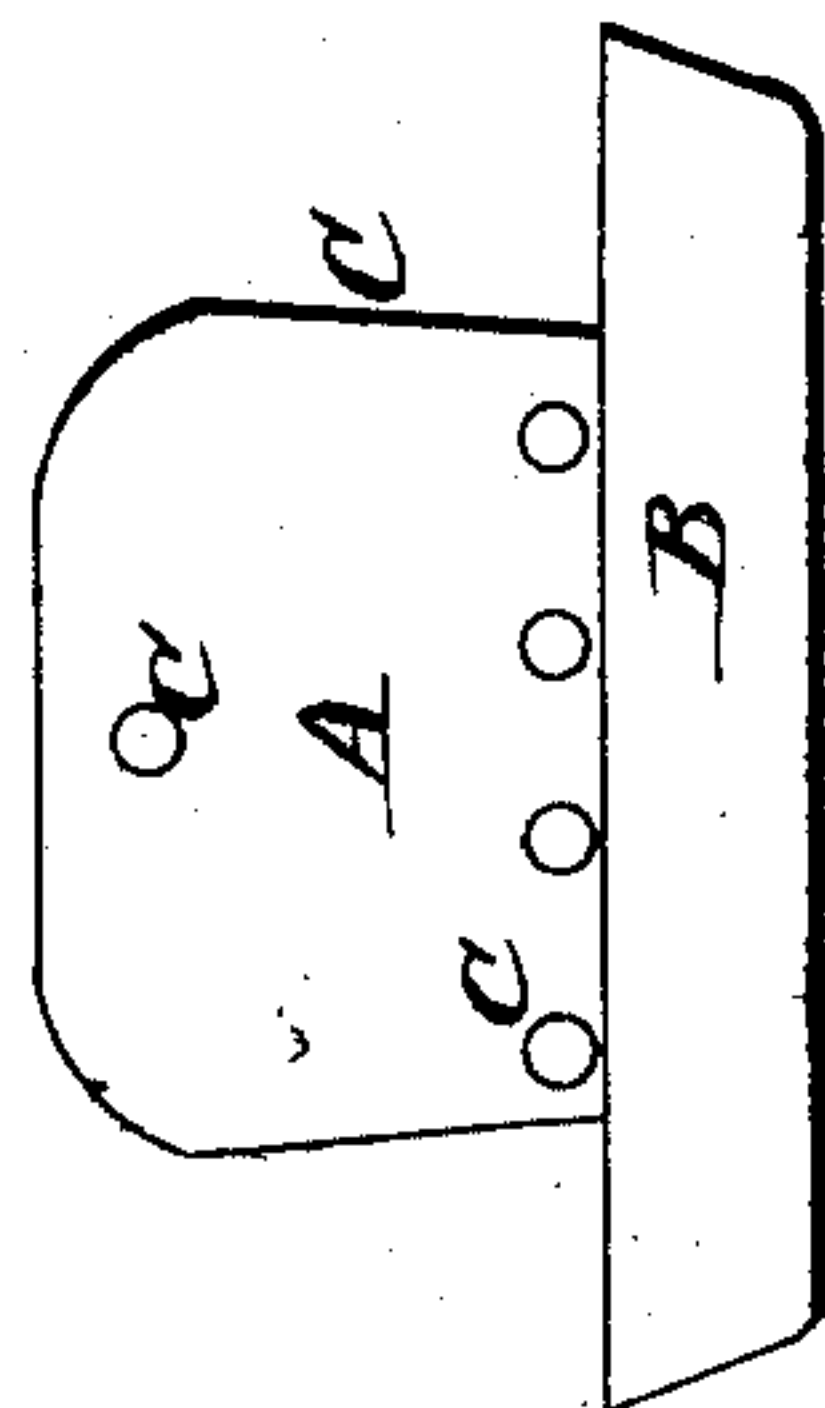
*Fig. 3.*



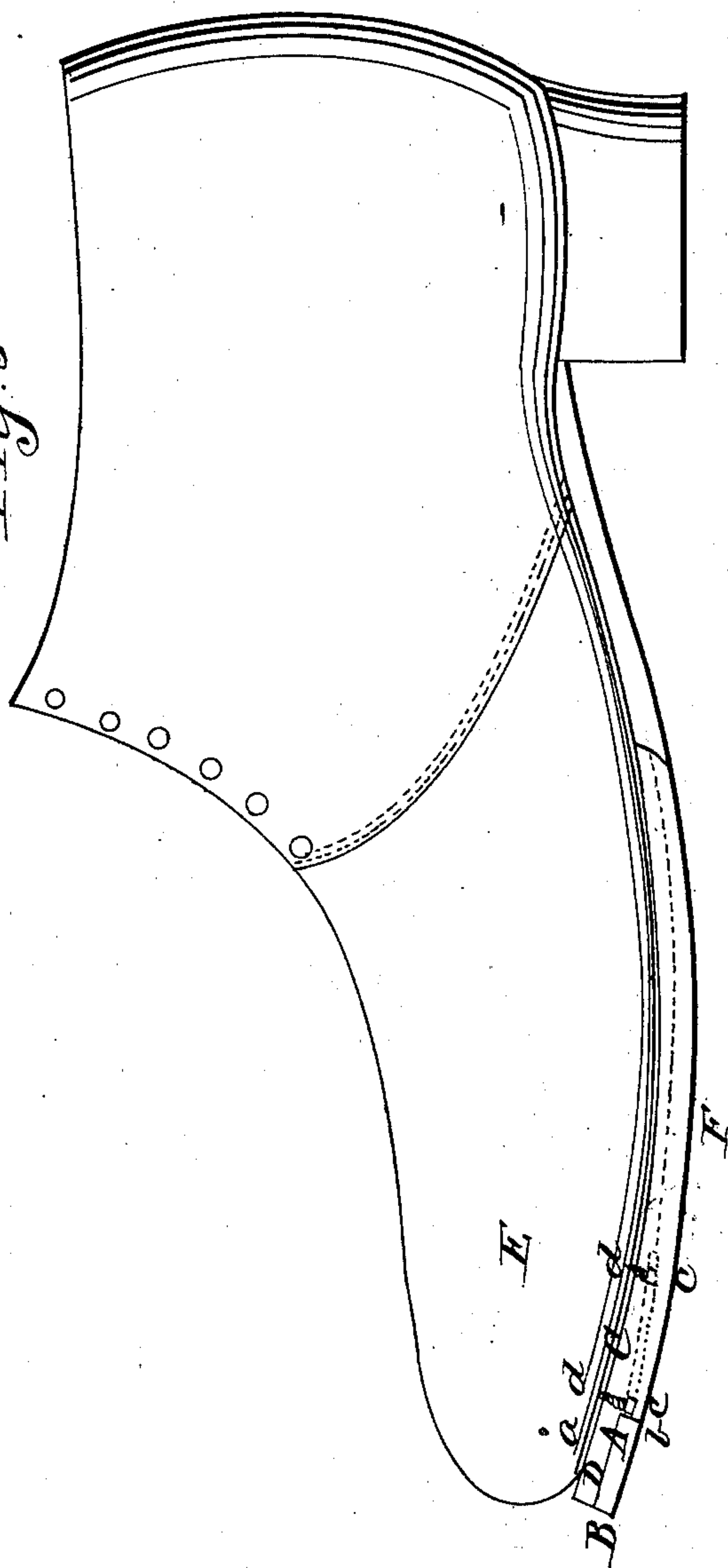
*Fig. 2.*



*Fig. 1.*



*Fig. 5.*



Witnesses:  
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# United States Patent Office.

GEORGE BEATTY, OF CLEVELAND, OHIO,

Letters Patent No. 94,382, dated August 31, 1869.

## IMPROVED TOE-PLATE FOR BOOTS AND SHOES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, GEORGE BEATTY, of Cleveland, in the county of Cuyahoga, and State of Ohio, have invented certain new and useful Improvements in Toe-Plates for Boots and Shoes; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon, making part of this specification, in which—

Figures 1, 2, 3, and 4, are plan and side-sectional views of my tip, or guard, in which are shown the same, constructed with both the straight and curved face or edge.

Figure 5 is a longitudinal vertical sectional view of a shoe with my tip, or guard inserted.

The nature of my invention consists in so constructing a toe-plate tip, or guard, that when inserted between the inner and outer soles of the boot or shoe, its outer edge is flush with the upper sole, and the forward portion of its lower surface is on a line, or flush with the sole of the boot.

To accomplish this, I cast or otherwise form the tip, or guard, so that its upper surface is a level plate, and the outer edge of its under surface is provided with a rectangular projection, or shoulder.

The flanged portion of the tip, entering between the soles, tends greatly to strengthen the same, and at the same time affords the means whereby the tip can readily and permanently be attached to the boot.

The thick portion of the tip is provided with short spikes, or projecting pins, which, on entering and becoming embedded in the inner sole, securely fastens the same in position.

The flanged portion of the plate may also be provided with openings, by means of which, should additional security be desired, the tip may be also screwed to the boot.

It is well known, that almost invariably the toe is the first portion of the boot or shoe that begins to wear, and especially is this the case with the shoes of children and laborers.

To afford an additional protection to this portion of the boot or shoe, and that, at the same time, is comparatively unobjectionable, is the object of my present invention.

Many attempts have been essayed to accomplish the results aimed at in my invention. Metallic tips, in the shape of shields or fenders, of every variety of form, have repeatedly been tried, but all have been found objectionable, and to such an extent is this the fact, that you scarcely ever see one in use, or, indeed, offered for sale in the market. Many reasons might be assigned why this is the case, among the most prominent of which is that they encase one of the most tender portions of the foot in an unyielding ma-

terial, and unless the shield is secured so tightly to the upper of the shoe as to render it exceedingly uncomfortable, it is impossible to prevent the entrance and consequent accumulation and retention of dust, sand, water, and snow.

Another defect met with in all the shields or fenders now before the public, is found in the fact that they only protect the toe of the upper and the toe of the inner sole, leaving the toe of the outer sole entirely unprotected. Now, the toe of the outer sole is exactly where the wear begins, and which, if you can prevent, there is no danger of the toe of the upper and inner soles wearing out before the remainder of the boot.

This protection my guard affords, as the outer sole is cut away at the forward portion, and rests against the inner surface of the shoulder, the face of the tip alone remaining in contact with the ground or floor.

To enable others skilled in the art to make and use my invention, I will now proceed to describe its construction and operation.

A is the toe-plate, tip, or guard, and may be made of cast or malleable iron, brass, or any other suitable material. It may be cast in a mould, "struck up," or formed in the desired shape by any of the numerous processes now in use.

The plate A may be formed with a straight edge, as shown in fig. 1, or curved, as shown in fig. 4.

The outer edge of the guard A is formed with a rectangular projection, or shoulder, B.

The upper surface is perfectly level, leaving a flange, C, to enter between the inner and outer sole.

*a a* are spikes, or sharp-pointed pins cast in the upper surface of the plate A, and by means of which the same is secured to the boot.

*c c* are openings in the flange portion of the plate, by means of which, for additional security, should it be considered desirable, it can be screwed to the inner sole.

The plate is inserted as follows:

The inner sole D is nailed on the last, and the upper leather E placed thereon, and sewed or otherwise attached to the same. Then the outer sole F is placed over the inner sole D and that portion of the upper-leather E which remains between the soles D F, and then pegged, sewed, or otherwise attached to that portion of the shoe which has previously been "lasted," excepting the toe.

By reference to fig. 5, it will be seen that the outer sole F is shorter than the inner sole D, the difference in length being the width of the shoulder B.

The spikes *a a*, being driven into the inner sole D, become firmly embedded therein, and securely retain the plate in position. Should additional security be desired, screws *d d* may be used.

When the tip is inserted, its outer edge is flush



with the toe of the inner sole D, and the forward portion of the sole F, fitting against the shoulder B, as seen at *b*, fig. 5, leaves the face of the shoulder flush with the outer surface of the sole.

Having thus fully described my invention,

What I claim therein as new, and desire to secure by Letters Patent of the United States, is—

The metallic tip, or guard-plate A, when the same is provided with a series of sharp projecting pins, or

spikes, *a a*, substantially as described, as and for the purpose specified.

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

GEORGE BEATTY.

Witnesses:

RODNEY DURKEE,  
PAUL KLINE.