No. 751,373. PATENTED FEB. 2, 1904.

P. P. BRANNON.

CATTLE GUARD.

APPLICATION FILED AUG. 12, 1903.

NO MODEL. 2 SHEETS—SHEET 1.

Fig. 1.

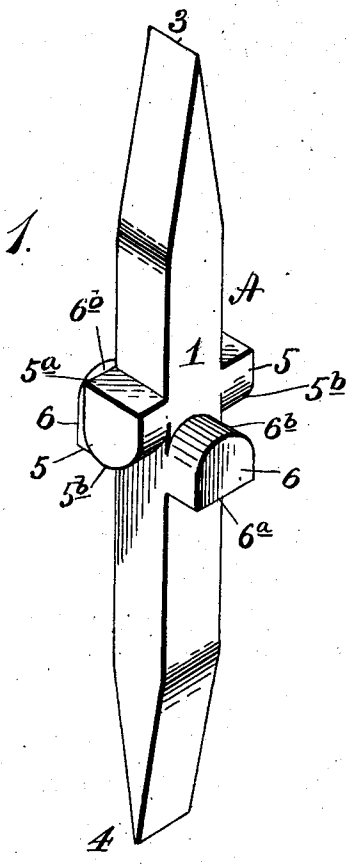
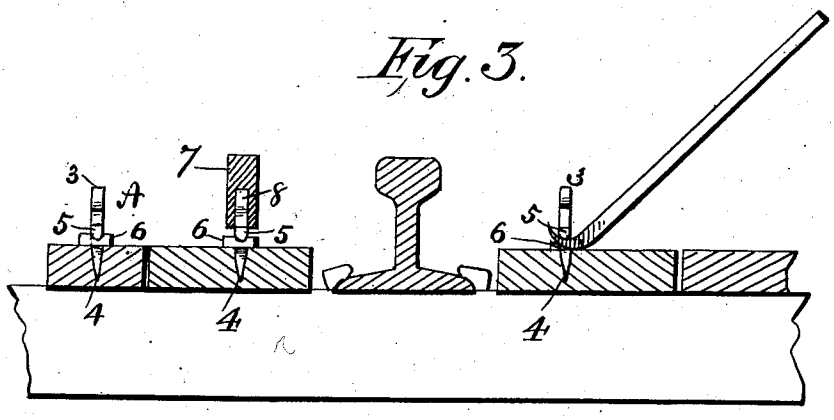


Fig. 3.



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L. L. Bunker.

Inventor:
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

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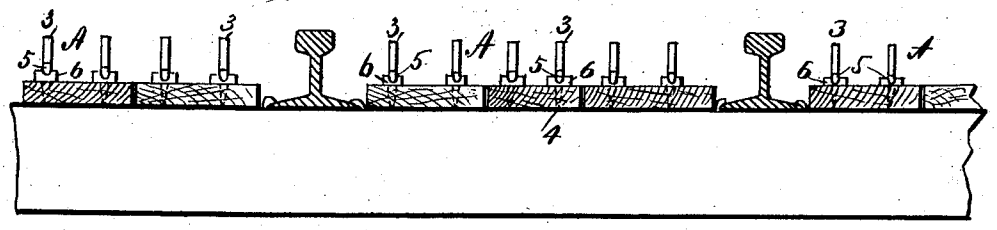
P. P. BRANNON.

CATTLE GUARD.

APPLICATION FILED AUG. 12, 1903.

NO MODEL. 2 SHEETS—SHEET 2.

Fig. 2.



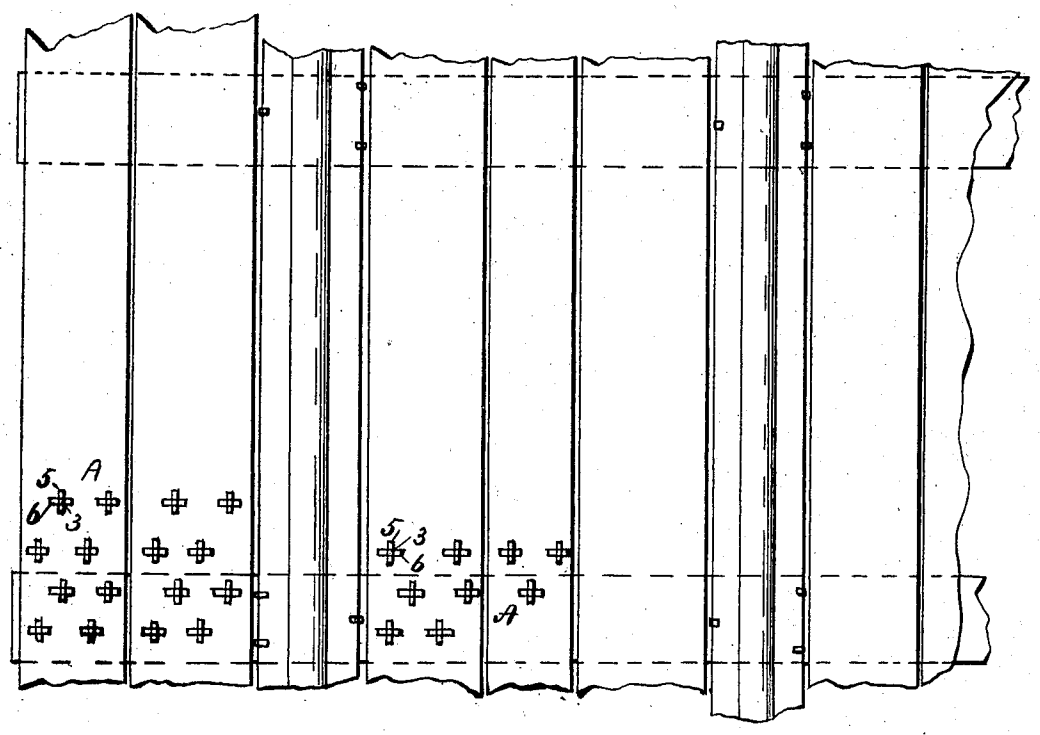


Fig. 4.

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No. 751,373. Patented February 2, 1904.

UNITED STATES PATENT OFFICE.

PATRICK PETER BRANNON, OF ARMENIA, SAN SALVADOR, ASSIGNOR OF ONE-HALF TO EDGAR WALLACE CONABLE, OF ROSWELL, COLORADO.

CATTLE-GUARD.

SPECIFICATION forming part of Letters Patent No. 751,373, dated February 2, 1904.

Application filed August 12, 1903. Serial No. 169,201. (No model.)

To all whom it may concern:

Be it known that I, PATRICK PETER BRANNON, a citizen of the United States, residing at Armenia, Department of Sonsonate, and Republic of San Salvador, have invented new and useful Improvements in Cattle-Guards, of which the following is a specification.

My invention relates to cattle-guards; and the object of the same is to construct a double-pointed spike which is adapted to be driven into the cross-ties or sills and spaced so that cattle will be unable to gain a foothold thereon and which spike may be drawn by means of a claw-bar whenever desired.

The simple and novel construction employed by me in carrying out my invention is fully described and claimed in this specification, and illustrated in the accompanying drawings, forming a part thereof, in which—

Figure 1 is a perspective view of one of my improved spikes. Fig. 2 is a transverse section of a railroad-track equipped with one of my improved cattle-guards. Fig. 3 is a detail side elevation of one of my spikes driven into a fragment of a tie, together with a draw-bar. Fig. 4 is a plan view of my improved guard.

The numeral 1 designates the square body of a spike A, beveled off at the ends on the opposite sides to form chisel-points 3 and 4. Formed on the body A, adjacent to the center thereof, are four lugs, two of which are designated 5 and two 6. The lugs 5 are located on opposite sides of the body 1, nearer to the point 3 than the lugs 6, which are located on the two remaining sides of the body 1. The lugs 5 have flat upper surfaces 5^a and rounded lower surfaces 5^b, and the lugs 6 have rounded upper surfaces 6^a and flat lower surfaces 6^b.

In driving my spikes A a set 7 is employed having an aperture 8 therein, which fits over the upturned point of the spike, with its lower end engaging the plane faces of the upper pair of lugs.

When one point of the spike A—say the point 3—is driven into a base 9, the plane faces 5^a of the lugs 5 will come in contact with the base, but the rounded faces 6^b of the lugs 6 will be clear thereof, which circumstance will enable a draw-bar to be engaged on the lugs 6 to withdraw the spikes.

I do not wish to be limited as to details of construction, as these may be modified in many particulars without departing from the spirit of my invention.

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

1. The combination with a base of a double-pointed spike, with one point driven into said base, a lug located to limit the penetration of the driven point, and a lug located out of contact with said base to be engaged by a claw-bar to draw said spike, substantially as described.

2. A spike sharpened at both ends and bearing four lugs, two of said lugs being located in alinement with one another and on opposite sides of said spike, the other two lugs being located in alinement with each other and on the two unoccupied sides of said spike and nearer one of the points of said spike than the first-mentioned lugs, substantially as described.

3. A double-pointed spike bearing two oppositely-extending lugs located to limit the penetration of the driven point of said spike, and two oppositely-extending lugs located farther from the said driven point than said first-mentioned lugs and designed to be engaged by a claw-bar to draw said spike, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

PATRICK PETER BRANNON.

Witnesses:

H. C. WOODRUM,

M. BLOEDEL.