

No. 612,974.

Patented Oct. 25, 1898.

A. LUCAS.

RAIL SPIKE LOCK TIE AND GAGE PROTECTOR.

(Application filed June 16, 1898.)

(No Model.)

Fig. 1.

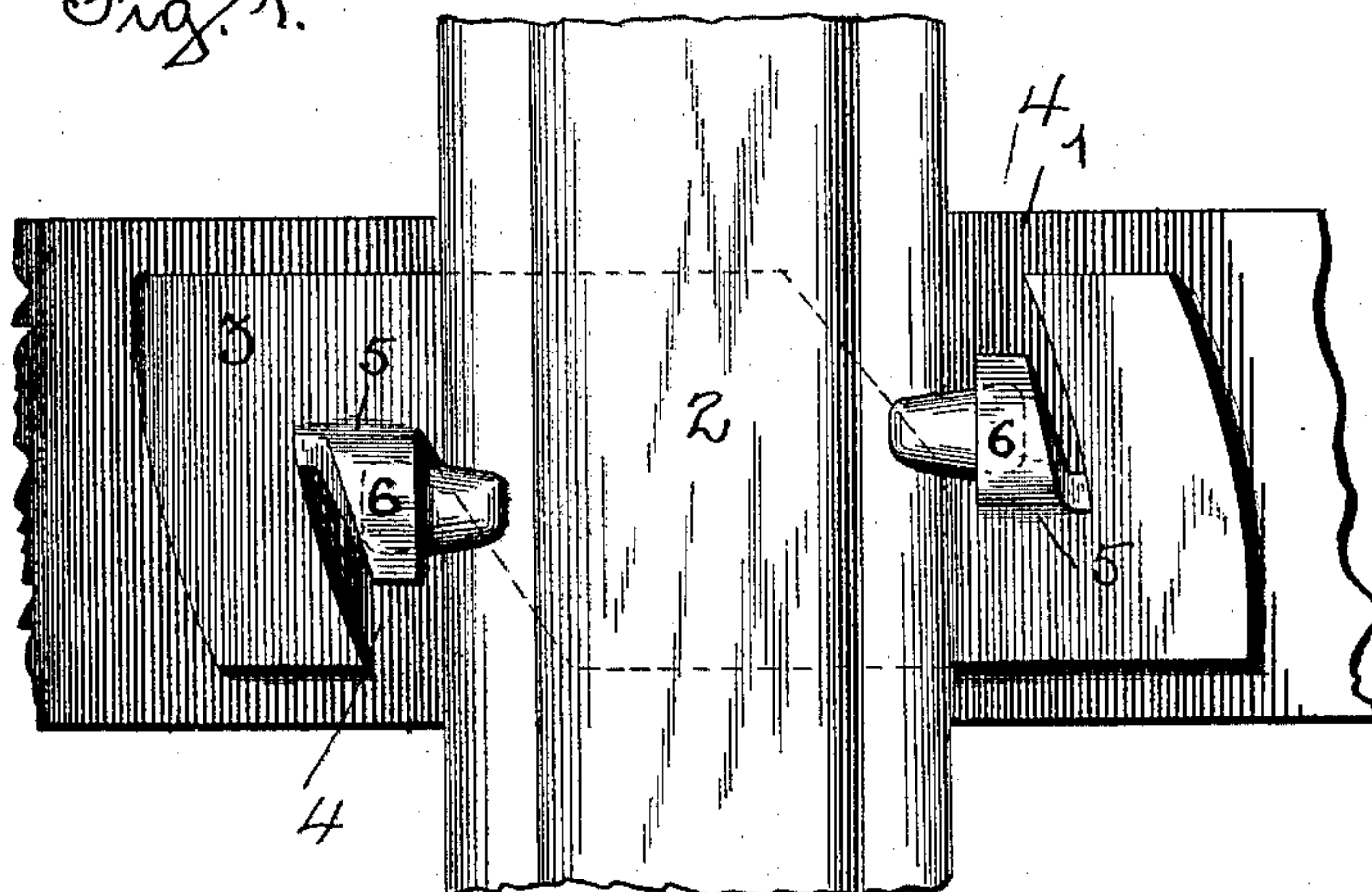


Fig. 2.

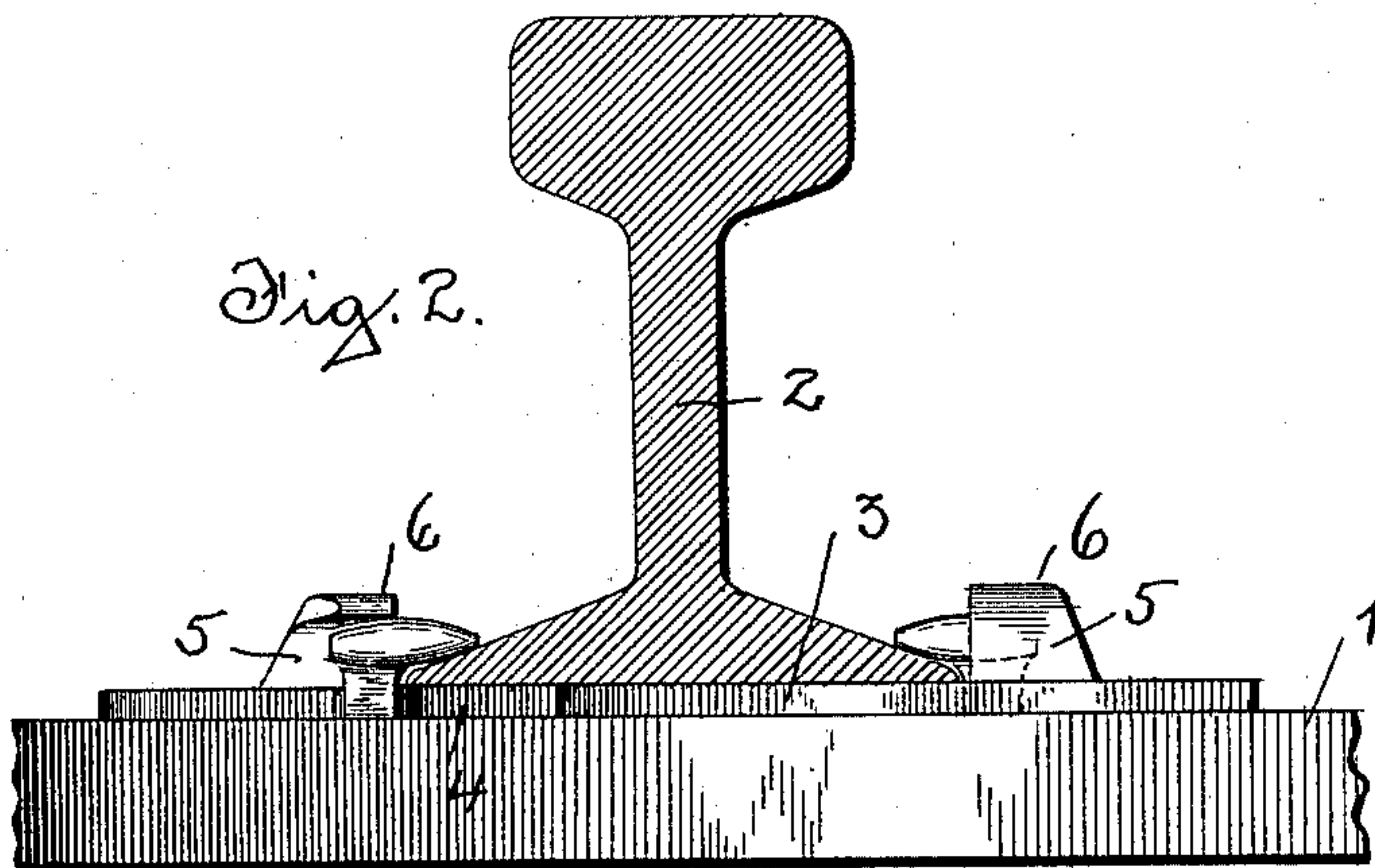
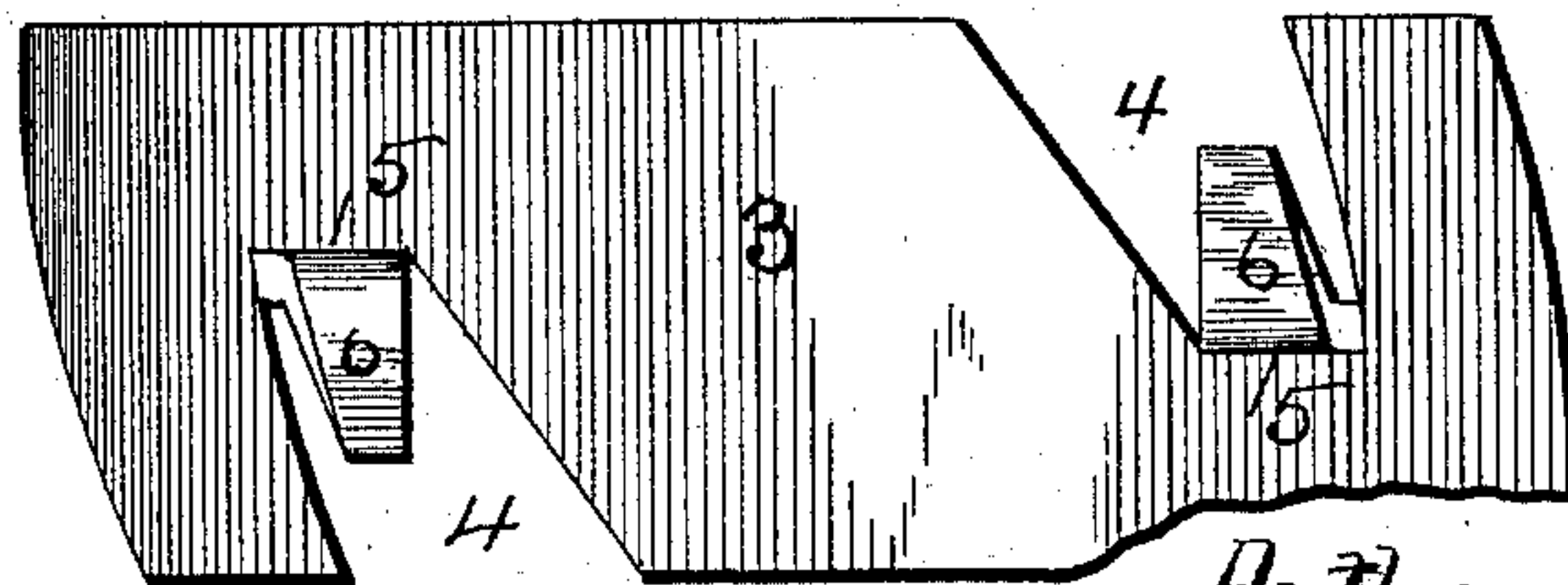


Fig. 3.



Witnesses:

*Arthur Page*  
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*His Attorneys.*

# UNITED STATES PATENT OFFICE.

ANTHYME LUCAS, OF EDMUNDSTON, CANADA.

## RAIL-SPIKE LOCK-TIE AND GAGE-PROTECTOR.

SPECIFICATION forming part of Letters Patent No. 612,974, dated October 25, 1898.

Application filed June 16, 1898. Serial No. 683,559. (No model.)

*To all whom it may concern:*

Be it known that I, ANTHYME LUCAS, a subject of Her Majesty the Queen of Great Britain, residing at Edmundston, in the county of Madawaska, Province of New Brunswick, Canada, have invented certain new and useful Improvements in Rail-Spike Lock-Ties and Gage-Protectors; and I do hereby declare the following to be a clear, full, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in rail-spike lock-ties and gage-protectors.

The object of my invention is to produce a device of this character which will securely hold the rail and spikes in position, form a wearing-plate for the tie, and which will prevent the vertical movement of the spikes when driven into position.

To these ends my invention consists in the improved construction and combination of parts, as hereinafter fully described, and particularly pointed out in the appended claims.

In the drawings, in which similar numerals of reference indicate similar parts in all of the views, Figure 1 is a top plan view of a railway rail and a tie, showing my improvement in position thereon. Fig. 2 is a side view of the tie and a section of the rail, the view showing a side elevation of my improvement. Fig. 3 is a top plan view of my improved plate.

1 designates the tie of a railway-track, on which is adapted to be secured the rail 2. Between the rail and the tie is placed a plate 3, preferably formed as shown in Fig. 3, having arranged therein recesses 4, which extend inwardly from opposite sides of the plate, these recesses preferably extending inward from the edge of the plate at an angle. The plate 3 is provided with upwardly-bent portions 5, formed integrally with the main portion of the plate, the end of said bent-up portions being again bent on a horizontal plane, as at 6, to form a hood.

The plate 3 is adapted to be placed under the rail 2 when the same is laid, the plate being inserted at an angle. The spikes are then driven into position, after which the plate 3 is turned until it is directly at right angles to the rail, when the hoods will be above the heads of the spikes. If for any reason it is desired to remove the spikes, the plate is then driven to its first position, when the spikes can be readily withdrawn.

It will be seen that by this construction I have provided a device which will hold the spikes from becoming loosened by reason of the continual passing of the train and which will also prevent their being forced away from contact with the rail in a lateral direction. It will also be seen that the plate itself forms an efficient wearing-surface for the rail to rest on, and thus prevent any cutting of the tie.

Having thus described my invention, what I claim as new is—

1. A combined rail-spike lock-tie and gage-protector comprising a plate having angularly-disposed recesses extending inwardly from opposite sides of said plate; and hoods formed integrally with said plate and adapted to normally extend over a portion of said recesses, substantially as described.

2. The combination with the tie, rail, and spikes, forming a railway-track; of a plate located between said rail and said tie, said plate having angularly-disposed recesses extending from opposite sides thereof, said recesses being adapted to receive said spikes, when said plate is moved into its normal position; and hoods formed integrally with said plate, said hoods being adapted to be passed over the top of said spikes, when said plate is moved into its normal position, substantially as described.

In witness whereof I have hereunto set my hand in the presence of two witnesses.

ANTHYME LUCAS.

Witnesses:

FRED. LA FOREST,  
JOSEPH NIHAUD.