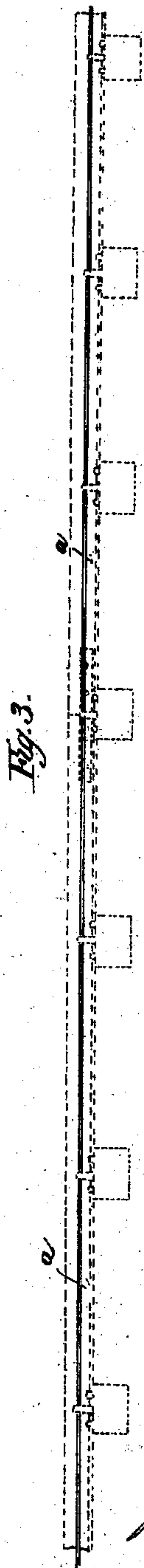
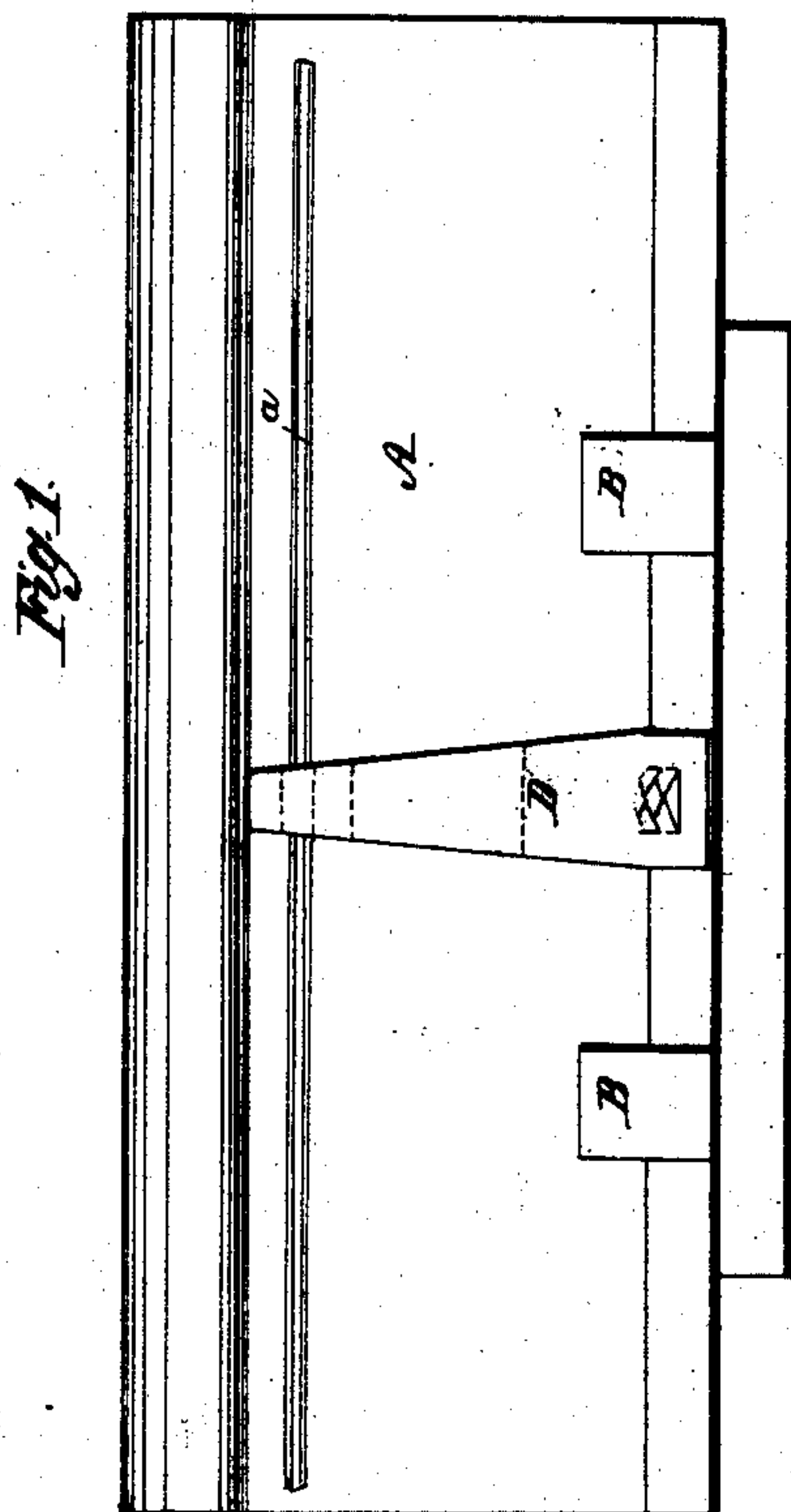
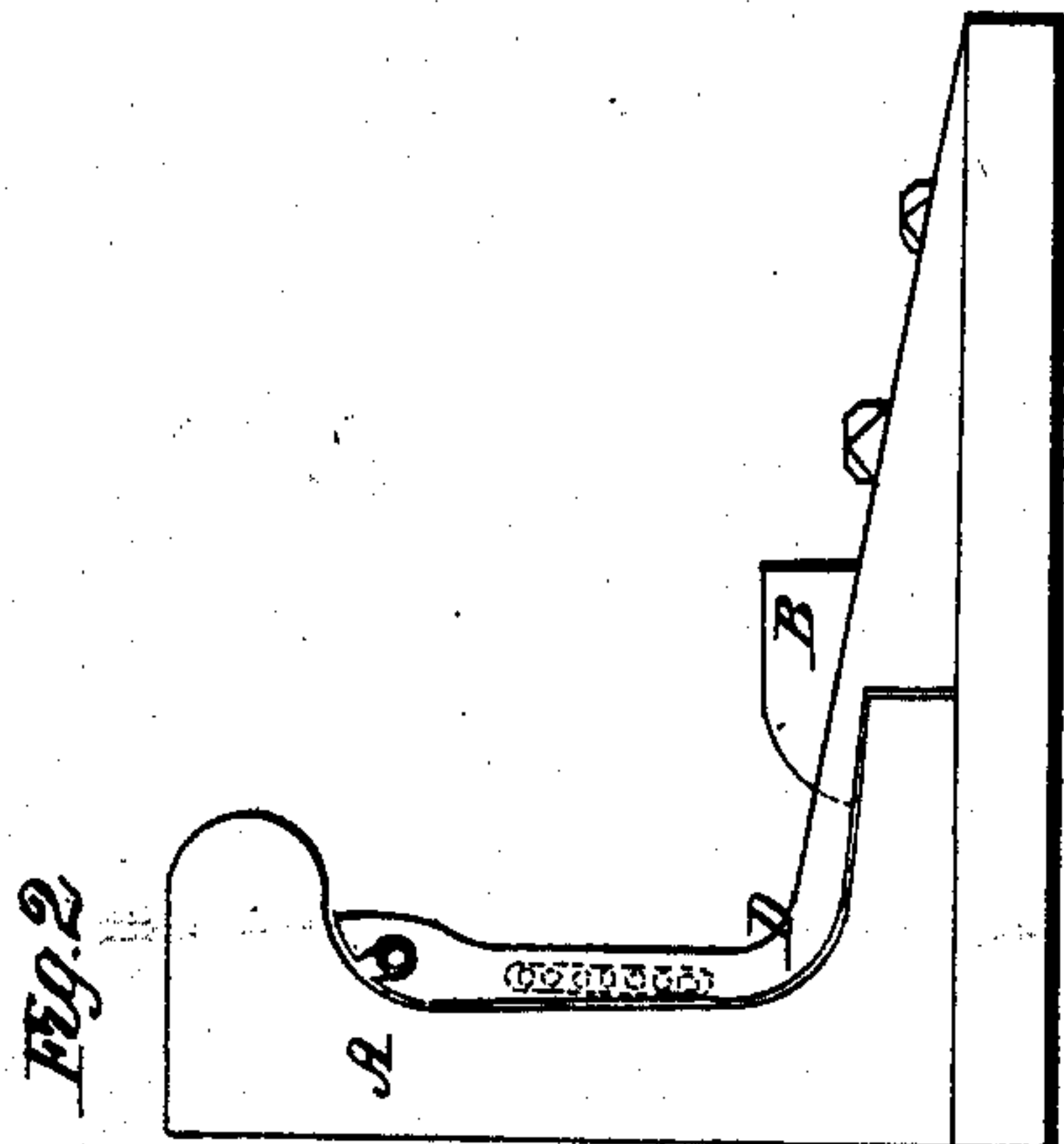


D. W. STRONG.
Laying Telegraph Wire.

No. 69,947.

Patented Oct. 15, 1867.



Witnesses,
Geo. H. Strong
C. W. Smith

Inventor:
D. W. Strong
By his Atty J. J. Jewell & Co.

United States Patent Office.

DANIEL WEBSTER STRONG, OF DUTCH FLAT, CALIFORNIA.

Letters Patent No. 69,947, dated October 15, 1867.

IMPROVEMENT IN LAYING TELEGRAPH WIRES ON RAILROADS.

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, DANIEL WEBSTER STRONG, of Dutch Flat, Placer county, State of California, have invented certain new and useful improvements in "Laying Telegraph Wire;" and I do hereby declare the following description and accompanying drawings are sufficient to enable any person skilled in the art or science to which it most nearly appertains to make and use my said invention or improvements without further invention or experiment.

The nature of my invention is to provide an improved method for laying telegraph wires which are used on lines of railroad, for the purpose of securing them against the danger of accidents and delays, or limbs of trees breaking the wires.

In order to effect this, I construct the wire with an insulating covering to protect it from contact with its attachments, and place it along the side of the rail. Upon each sleeper, or upon a sufficient number to support the wire, I place brackets of malleable or cast iron, so shaped as to fit the sides of the rail. These brackets have slots or openings, through which one or any number of wires are made to pass, thus securing them firmly, and at the same time protecting them from injury. To more fully explain my invention, reference is had to the accompanying drawings, forming part of this specification, of which—

Figure 1 is a side elevation of a portion of a rail, showing the position of the wire attached.

Figure 2 is an end view.

Similar letters of reference indicate like parts.

A is a rail, attached to sleepers by spikes B. Between these spikes is placed the bracket or supporter D, constructed of suitable shape, and fitting against the side of the rail. A slot or opening is made either in the substance of the bracket, or between the sides of the rail and the bracket, as may be found most convenient, through which the wire *a* passes. This wire is constructed much smaller than the usual telegraph wire, as it does not need to be as strong, having no weight to support. It is insulated so as to be perfectly protected from the influence of the rail and its supports. When it is necessary to connect the wire with an office, or to have it leave the line for any reason, it may be passed under ground for a short distance, and then connected with posts for a short distance, like ordinary wires.

By laying wires in this manner, they are much more thoroughly protected from the accidents which usually befall telegraph lines, while the extra expense of insulating will be nearly balanced by the less cost of the smaller wire. If it is necessary to repair the track, by removing a few of the brackets the wire can be moved far enough to one side to be safe till the repairs are completed, when it may be replaced.

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

The slotted brackets or holder D, for retaining and protecting the wire, substantially as described.

In witness whereof I have hereunto set my hand and seal.

D. W. STRONG. [L. s.]

Witnesses:

C. W. M. SMITH,
GEO. H. STRONG.