

No. 882,022.

PATENTED MAR. 17, 1908.

F. SCHMIDT.
ATTACHMENT FOR TAPE LINES.
APPLICATION FILED JULY 1, 1907.

Fig. 1.

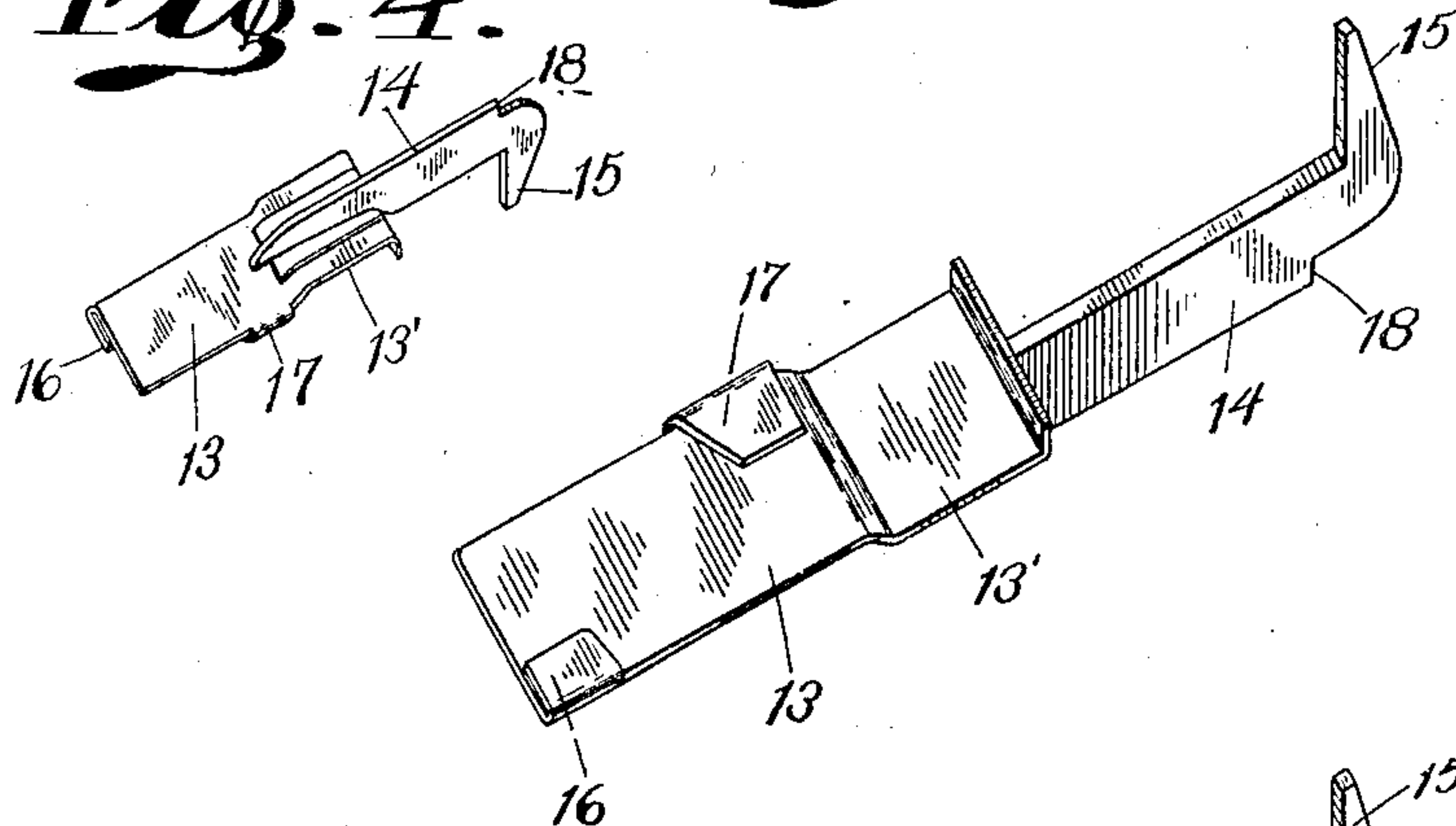


Fig. 2.

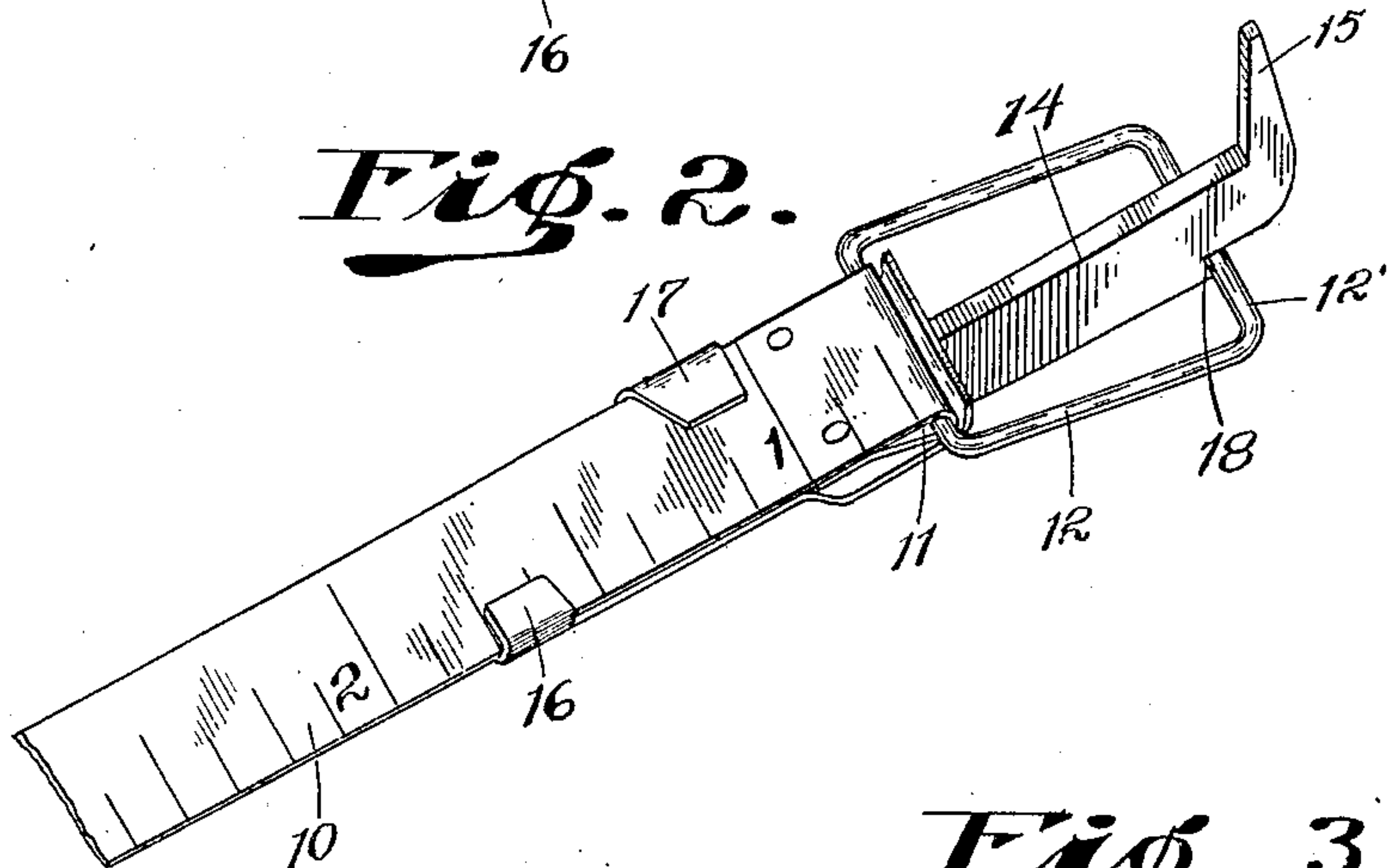
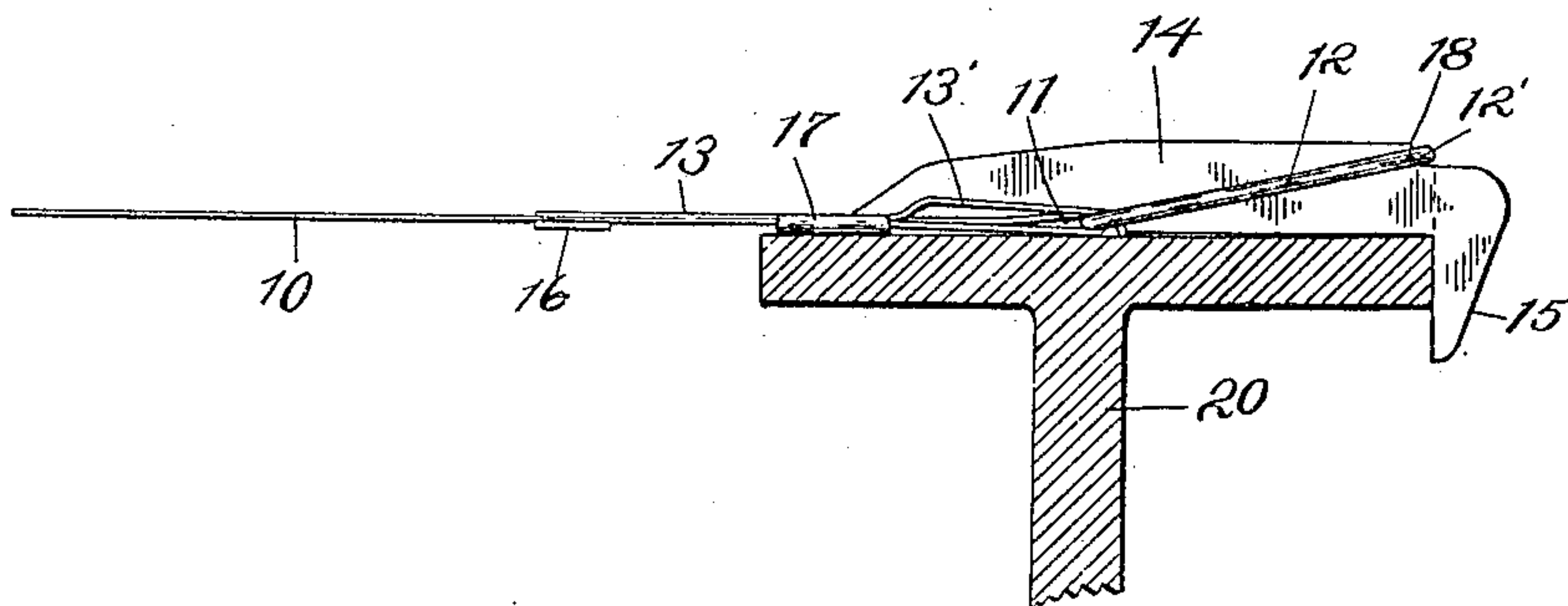


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

FRIEDEBERT SCHMIDT, OF INDIANAPOLIS, INDIANA.

ATTACHMENT FOR TAPE-LINES.

No. 882,022.

Specification of Letters Patent.

Patented March 17, 1908.

Application filed July 1, 1907. Serial No. 381,636.

To all whom it may concern:

Be it known that I, FRIEDEBERT SCHMIDT, a subject of the Emperor of Germany, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Attachments for Tape-Lines, of which the following is a specification.

The object of my invention is to provide an attachment for tape lines, more especially steel tape lines, by means of which a person may, single-handed, take measurements of structural steel and other frames where the character of the material is such that the end of the tape line, in its ordinary condition, cannot be readily and accurately attached to the object to be measured.

The accompanying drawings illustrate my invention:

Figure 1 is a perspective view of my attachment, about twice full-size; Fig. 2 is a similar view showing the manner of attachment; Fig. 3 a side elevation showing the manner of use, and Fig. 4 a perspective view of the opposite face from that shown in Fig. 1, and the device about full size.

An ordinary steel tape 10 is doubled upon itself at the end in order to form an eye 11 in which is pivotally mounted one cross bar of a link 12, the other cross bar 12' forming the actual end of the measure so that its extreme may be placed against an object as the initial point of measurement.

My attachment comprises a main plate 13 and an arm 14 having a finger 15 extended at right angles from the main arm 14. Plate 13 is formed with an offset 13' adapted to receive the doubled portion 11 of the tape 10. Plate 13 is also provided upon its opposite edges with tongues 16 and 17 which are folded over upon the main plate 13. The two tongues 16 and 17 are separated longitudinally by a space sufficient to admit the tape 10 crosswise between them and said tongues lie a distance from the face of the plate 13 equal to the thickness of the tape so that said tape may be inserted beneath the tongues. Arm 14 is then provided, upon the side opposite finger 15, with a shoulder 18 behind which the bar 12' of link 12 may be slightly sprung, the shoulder 18 lying inside the plane of the inner face of arm 14 an amount equal to the diameter of the cross bar 12'.

In use the attachment is secured to the tape by first projecting arm 14 partially

through link 12; then twisting the tape until it lies crosswise on plate 13 between fingers 16 and 17; then straightening the tape so that it will pass beneath fingers 16 and 17, as shown in Fig. 2, and then swinging link 12 toward the plane of the tape until its cross bar 12 passes behind shoulder 18, said shoulder being slightly undercut in order to hold the parts against accidental displacement. In this connection the hook 15 may be readily hooked over the edge of any article, such for instance as an I-beam 20, and will serve to hold the end of the tape accurately in measuring position while a single operator proceeds to a distant point to take the desired measurement. A very slight undulation of the tape, however, will quickly detach the hook from the article and the tape may be rewound from a distant point.

I claim as my invention:

1. An attachment for tape lines comprising a main body having means for engaging the tape line, an arm having a projecting retaining finger, and a shoulder to engage the tape line ring.

2. An attachment for tape lines comprising a main body having means for engaging the tape line, and an arm adapted to be projected through the tape line ring, said arm having a retaining finger projected from one side thereof, and a ring retaining shoulder on the opposite side.

3. An attachment for tape lines comprising a main body, a pair of longitudinally-separated fingers carried by said main body and projected over the same from opposite directions; an arm having a projecting retaining finger, and a shoulder to engage the tape line ring.

4. An attachment for tape lines comprising a main body, a pair of longitudinally-separated fingers carried by said main body and projected over the same from opposite directions, an arm adapted to be projected through the tape line ring, said arm having a retaining finger projected from one side thereof, and a ring-retaining shoulder on the opposite side.

In witness whereof, I have hereunto set my hand and seal at Indianapolis, Indiana, this twentyseventh day of June, A. D. one thousand nine hundred and seven.

FRIEDEBERT SCHMIDT. [L. s.]

Witnesses:

ARTHUR M. HOOD,
THOMAS W. McMEANS.