No. 877,967. PATENTED FEB. 4, 1908.

J. H. TAYLOR.

METALLIC RAILWAY SIGNAL.

APPLICATION FILED MAR. 4, 1907.

2 SHEETS—SHEET 1.

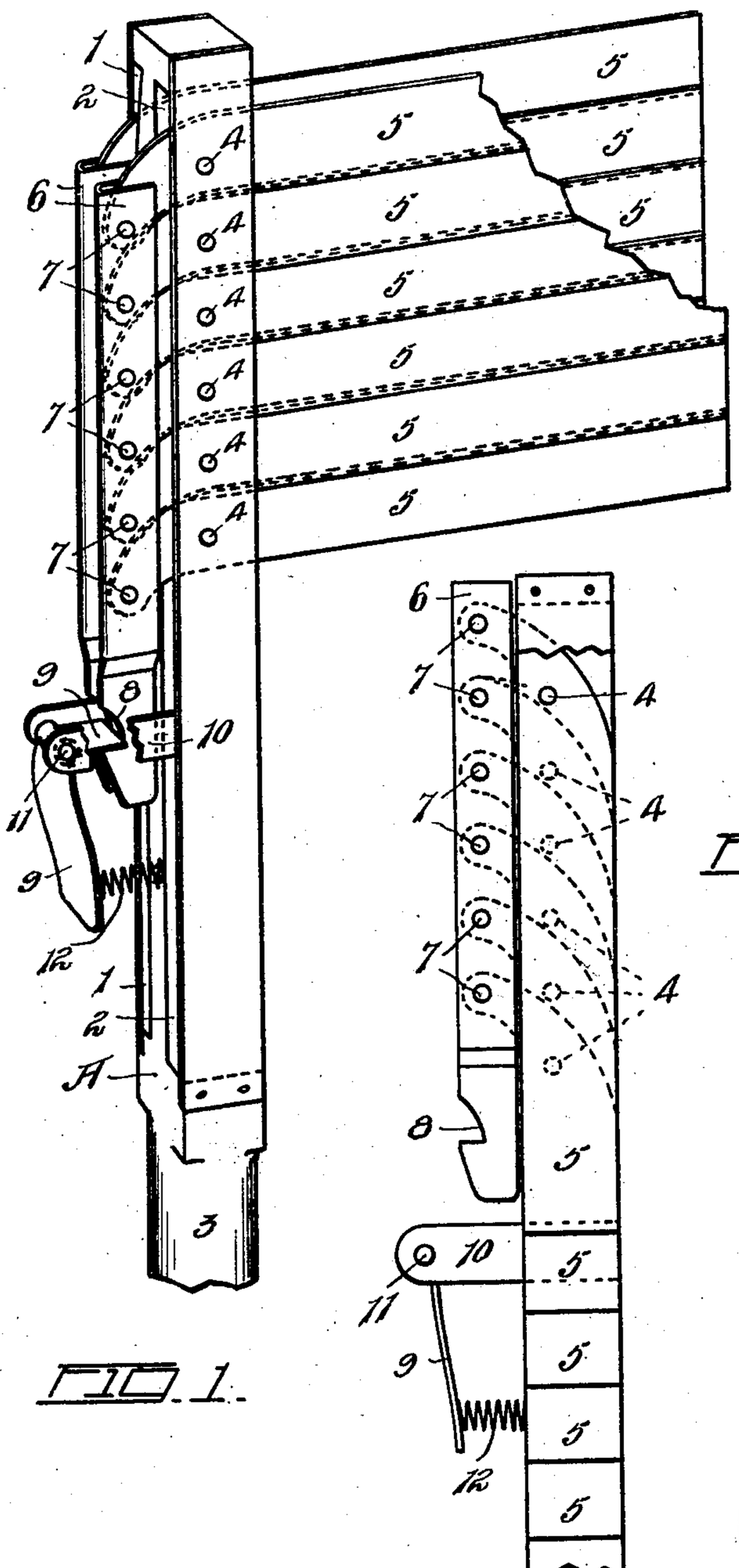

FIG. 1.

FIG. 3.

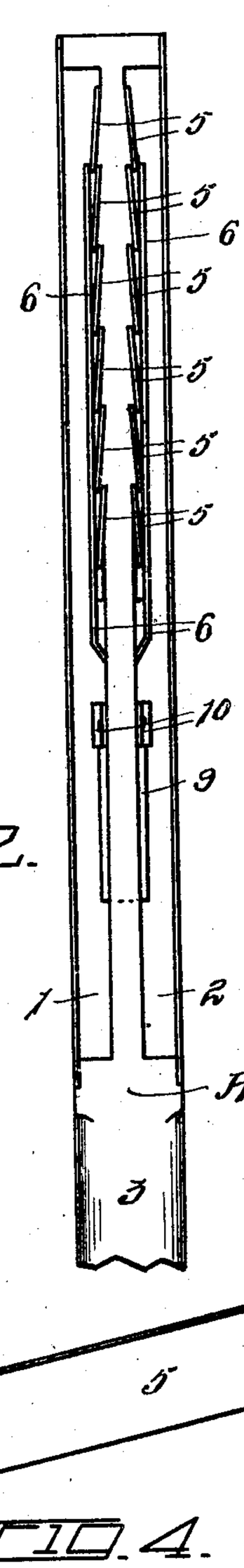

FIG. 2.

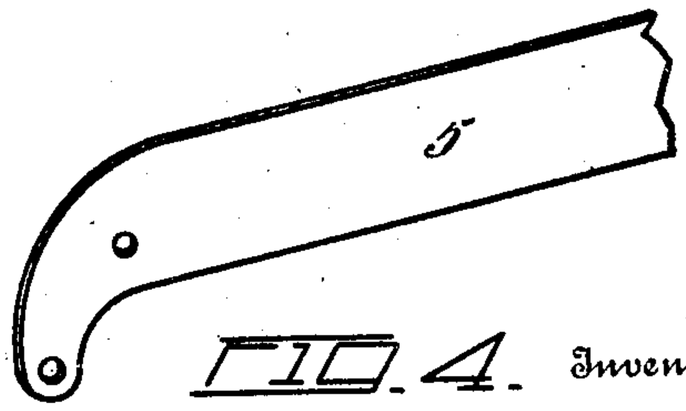

FIG. 4.

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J. H. TAYLOR.

METALLIC RAILWAY SIGNAL.

APPLICATION FILED MAR. 4, 1907. 2 SHEETS—SHEET 2.

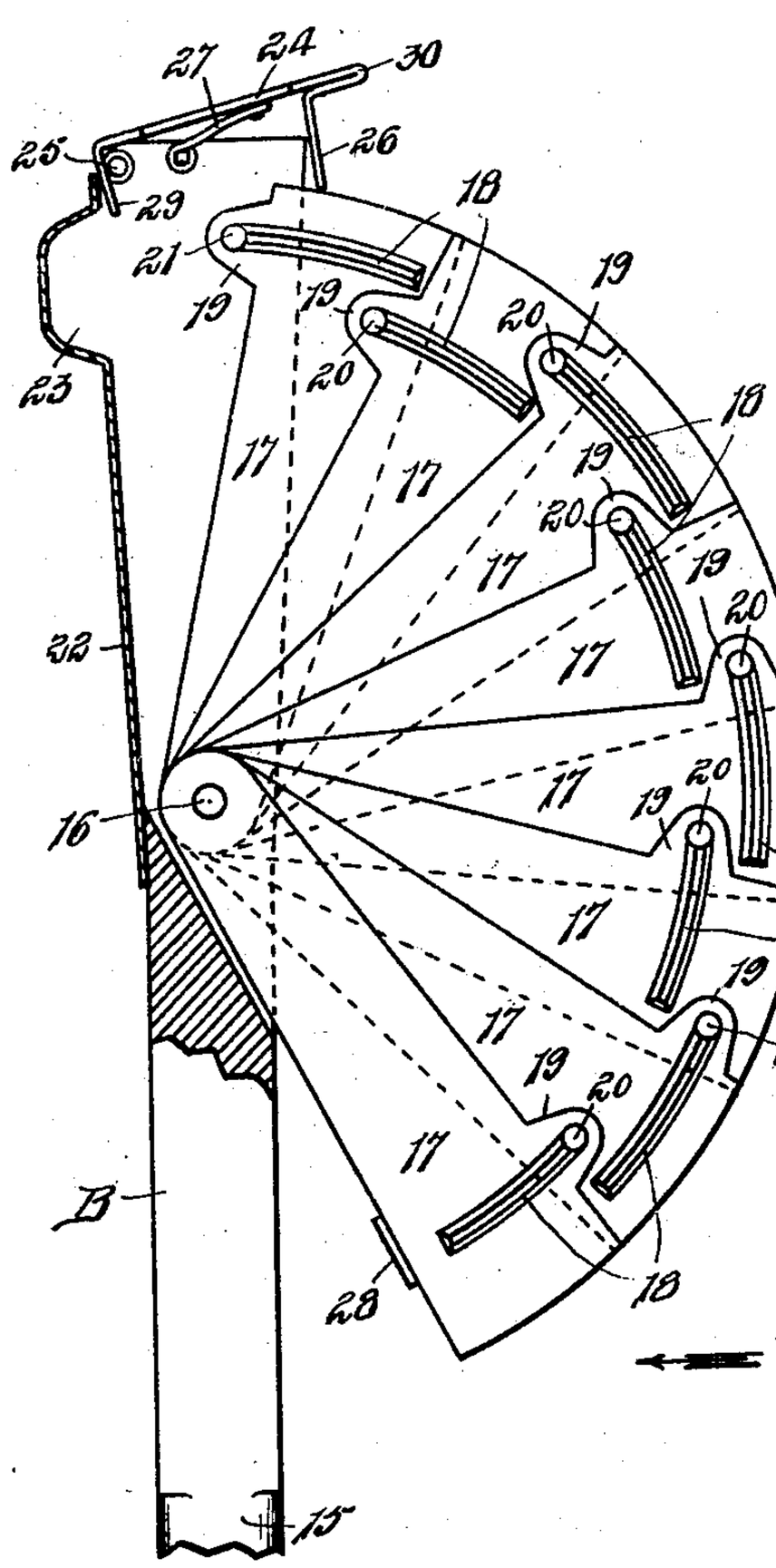

FIG. 5.

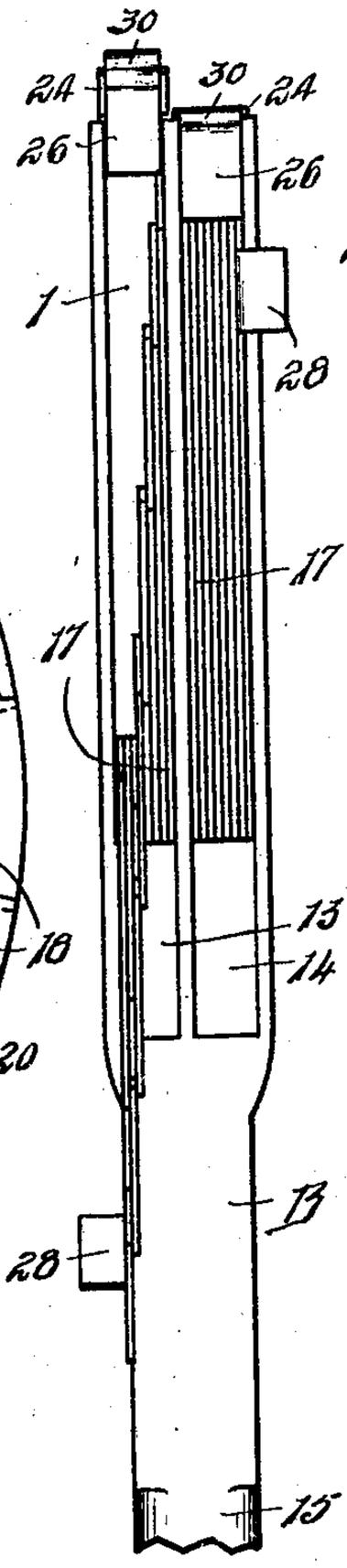

FIG. 6.

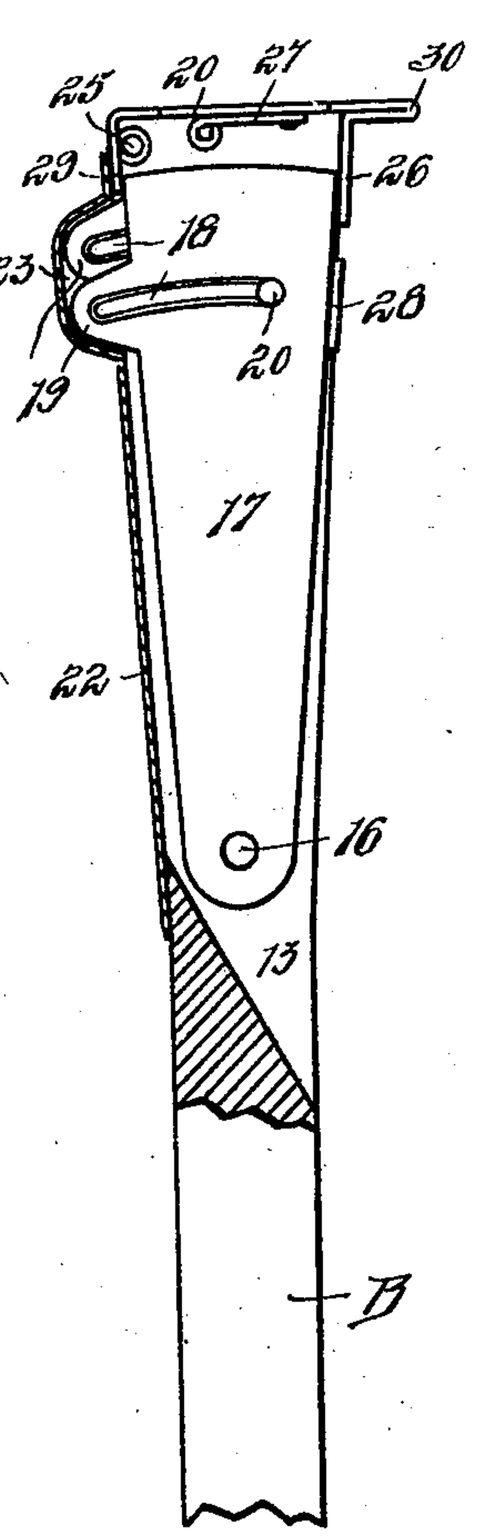

FIG. 7.

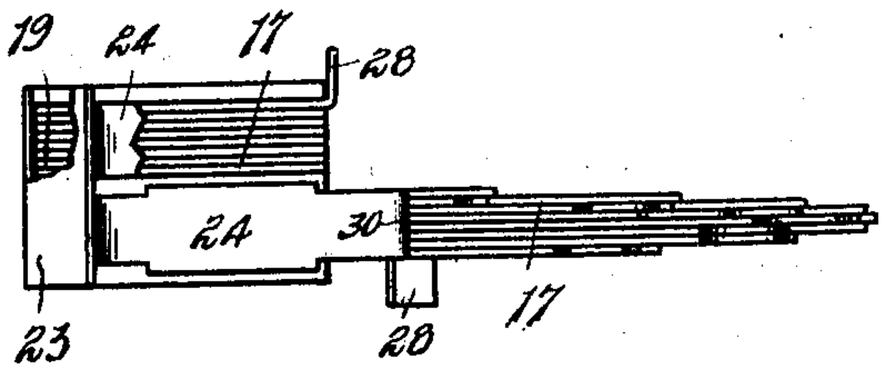

FIG. 8.

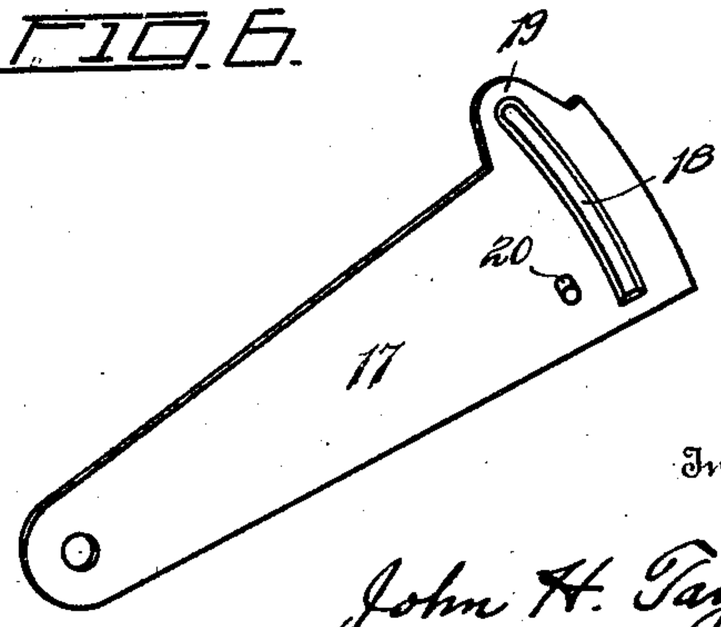

FIG. 9.

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UNITED STATES PATENT OFFICE.

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METALLIC RAILWAY-SIGNAL.

No. 877,967. Specification of Letters Patent. Patented Feb. 4, 1908.

Application filed March 4, 1907. Serial No. 360,538.

To all whom it may concern:

Be it known that I, JOHN H. TAYLOR, a citizen of the United States, residing at Waterloo, in the county of Douglas and State of Nebraska, have invented certain new and useful Improvements in Metallic Railway-Signals, of which the following is a specification.

My invention relates to a new and useful metallic railway-signal and more particularly to a signal to take the place of the ordinary staff and fabric-flag used on the heads of locomotives, on cabooses and along the tracks.

The object of my invention is to provide a signal consisting of a plurality of pivotally held metallic blades that are capable of being folded into engagement with the staff or handle when the signal is not in use.

With these and other objects in view, the invention consists in the construction and novel arrangement of parts hereinafter fully described, illustrated in the accompanying drawings and pointed out in the claims herewith appended.

Referring to the accompanying drawings, wherein like characters of reference denote similar parts throughout the several views:—Figure 1, is a view in perspective showing the signal with both flags out. Fig. 2, is an end view thereof looking in direction of the arrow, Fig. 1. Fig. 3, is a side elevation with one of the outer walls partly broken away showing the signal as folded in engagement with the staff or handle. Fig. 4, is a view in perspective of one of the metallic signal blades. Fig. 5, is a side elevation of another form of signal consisting of pivotal metallic signal blades, the same being shown in operative position, one of the flags being out. Fig. 6, is an end view thereof looking in direction of the arrow, Fig. 5. Fig. 7, is a side elevation showing the signal blades closed or folded in engagement with the handle and locked from falling out. Fig. 8, is a plan view of Fig. 5. Fig. 9, is a view in perspective of one of the flag or signal blades.

Referring to the drawings, A, designates a flag staff or handle being longitudinally recessed to form two housings 1, and 2 and having its lower end rounded to form a hand-hold 3.

Pivotally held by means of the pins 4 within the housings 1, and 2, are a plurality of metallic flag or signal-blades 5, which are at their extreme forward end pivoted to the connecting straps 6, by means of the pins 7. The straps 6, are notched at their lower end as at 8, to receive the locking means which consists of the L shaped locking plate 9, which is pivotally held between the ears 10, by means of the pin 11, and held in a locked position by means of the expansion spring 12 as shown. When in practical use, only one flag is displayed instead of two as shown in Fig. 1, of the drawing, the drawing being made this way only, to illustrate the same clearly. One of the flags is painted green while the other is white. If the signal is used for track services the flags of metallic signal blades are pulled out from opposite sides instead of from one side of the staff as shown in the drawings.

From the foregoing it will be understood that when the flag or signal is not required for use it may be incased or folded up in engagement with the handle or staff as shown in Fig. 3.

Referring to the modification of my invention as shown in Figs. 5, 6, 7, 8 and 9, the same consists of the handle or staff B, being longitudinally recessed to form two housings 13, and 14, and having its lower portion rounded to form a hand-hold 15.

Pivotally held by means of the pin 16, within the housings 13 and 14, are a plurality of metallic flag or signal blades 17, each being provided with the slotted opening 18, and ear 19, as shown, through which slotted openings pass the pins 20, which serve to hold the blades together, while permitting a certain degree of movement of the blades on one another as clearly shown in Fig. 5. It will be observed that one of these blades 17 is held from falling out of the housings by means of the pin 21, as shown in Fig. 5, of the drawing. The front of the flag staff or handle B, is covered by means of the plate 22 having the pocket 23, which receives the ears 19, of the signal-blades 17.

The means for holding the blades in a locked position consists of the approximately U-shaped metal member 24, which is pivoted by means of the pin 25, at a point near the top of the staff as shown in Fig. 5. The downwardly extending lip 26, of the locking plate 24, rides in the outer edge of the blades 17, when opened and held in engagement with the side edges of the blades when in a closed position as shown in Fig. 7. This lock plate 24, is under spring tension as disclosed at 27, as shown in Figs. 5, and 7. It

will be observed that each of the lower blades 17, are provided with the ear 28, to easily pull the blades out when desired. When it is desired to pull the blades out, the operator pulls the locking plate 24, upward as shown in Fig. 5, which causes lip 29, to partly push blades 17 out, when then the operator takes hold of ears 28, and pulls blades down to position shown in Fig. 5. The blades then hold themselves in position.

It is of course understood that I do not wish to limit myself to the use of any particular kind of material in constructing my improved signal or flag, and it is also evident that various changes may be resorted to in the forms, proportions, constructions, and arrangements of parts described without departing from the spirit and scope of the invention; hence I do not wish to be confined to the exact construction herein set-forth and especially in the locking means, but consider myself entitled to all such changes or variations as may fall within the spirit and scope of my invention.

Having fully described my invention, what I claim is:

1. A signal comprising longitudinally recessed staff and a series of hinged metallic sections to form a flag.

2. A signal comprising a longitudinally recessed staff and a series of hinged metallic sections having engagement with one another to form a flag.

3. A signal comprising a longitudinally recessed staff, a series of folding metallic sections pivotally connected to said staff and means for locking the same.

4. A signal comprising a longitudinally recessed staff, a plurality of pivotally held metallic sections arranged to form a flag, and means for connecting said sections.

5. A signal comprising a longitudinally recessed staff, a plurality of metallic sections pivotally connected to said staff and means for connecting said sections with one another to form a folding flag.

6. A signal comprising a longitudinally recessed staff, a plurality of pivotally held sections, each section having its body a metallic form and each section engaging the adjacent section at its said edge to form a flag when in its open position.

7. A signal comprising a staff having a pair of pockets formed in the upper end thereof, a pair of flags composed of a plurality of pivotally held metallic sections suitably connected to enable the same to be folded into said pockets when not in service and means for locking said flags in said pockets.

In testimony whereof, I, affix my signature in the presence of two witnesses.

JOHN H. TAYLOR

Witnesses:
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FRED'K J. LARSON.