

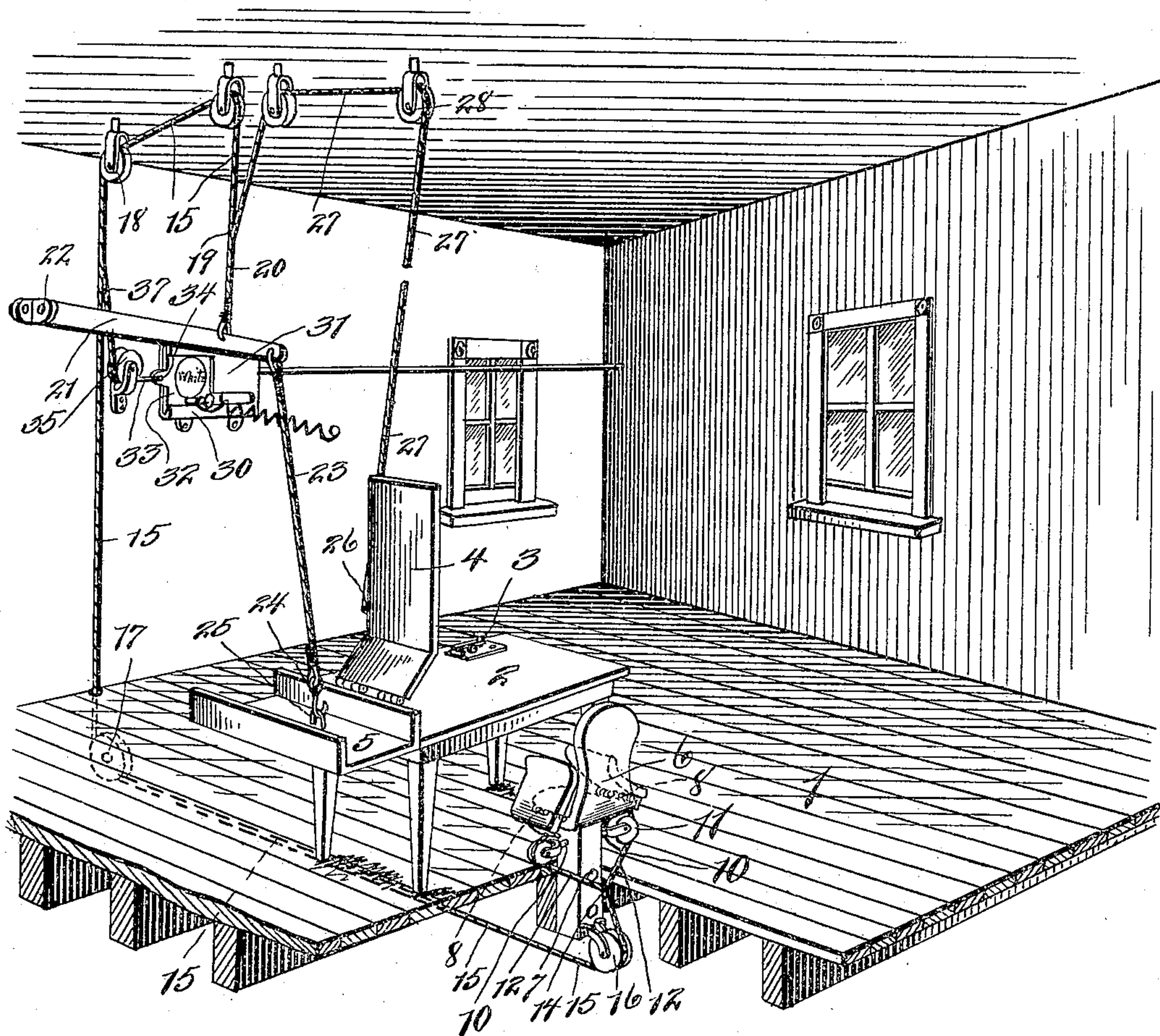
No. 817,685.

PATENTED APR. 10, 1906.

J. E. ADAIR.  
RAILWAY SIGNAL.  
APPLICATION FILED OCT. 6, 1905.

2 SHEETS—SHEET 1.

*Fig. 1.*



WITNESSES:

*R. A. Powell.*  
*R. S. Brown.*

INVENTOR

BY

*J. E. Adair.*  
*Swift & Co.*  
his Attorneys

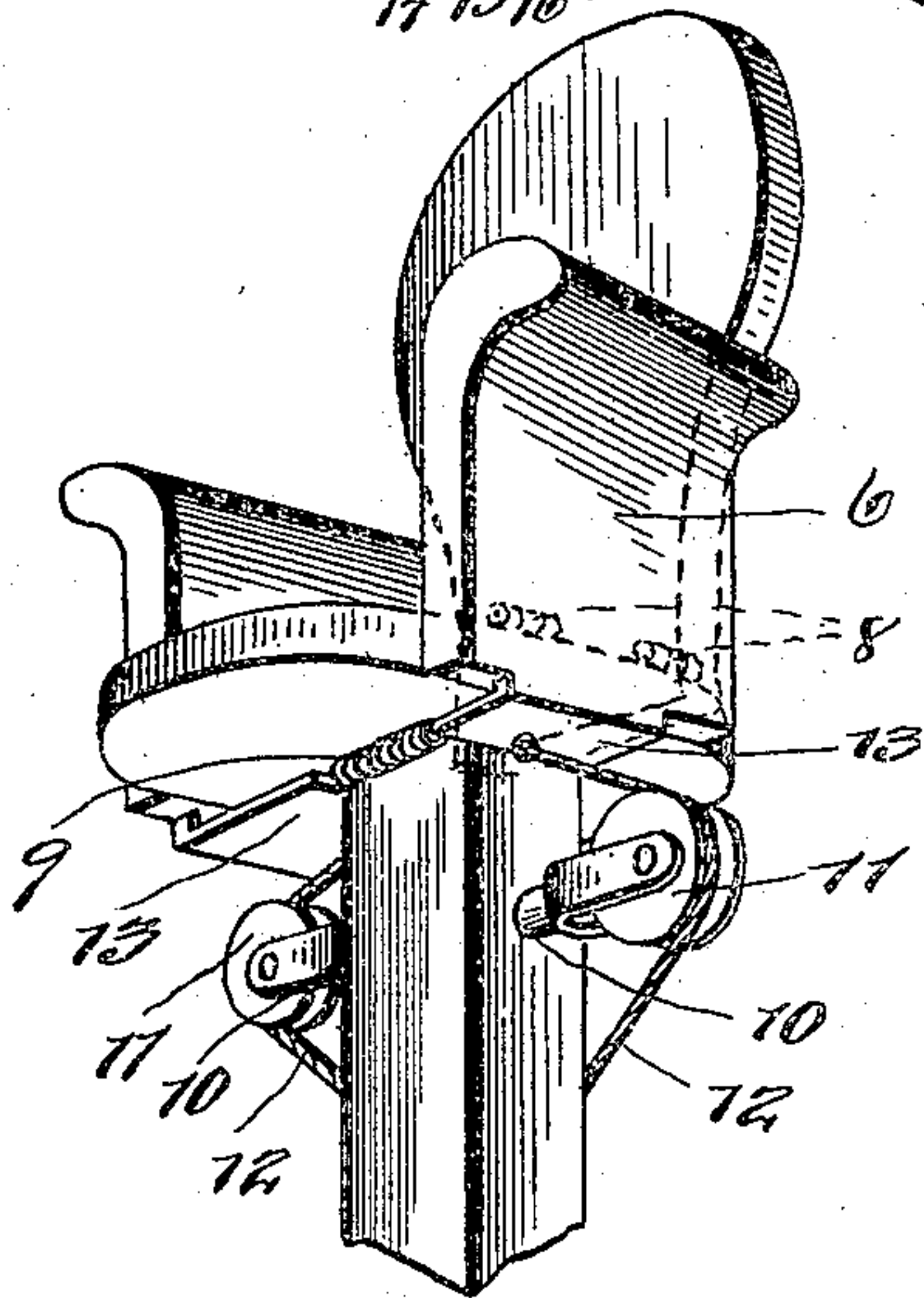
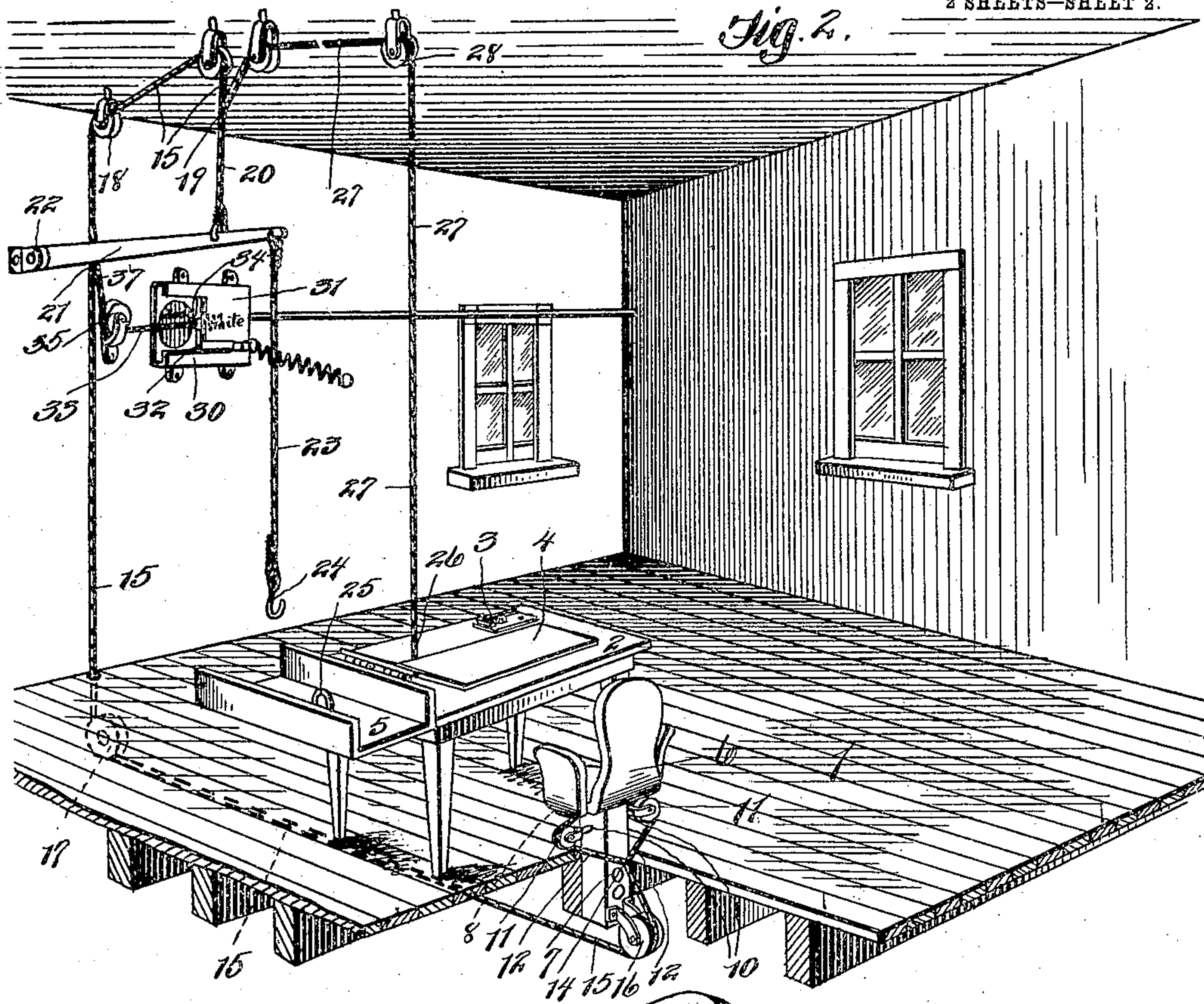
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2 SHEETS—SHEET 2.



*WITNESSES:*

R. A. Boswell,  
R. S. Boswell.

INVENTOR

J. E. Adair

 $B_Y$ 

Swift & Co.  
his Attorneys



# UNITED STATES PATENT OFFICE.

JULIUS ERYC ADAIR, OF GATLIFF, TENNESSEE.

## RAILWAY-SIGNAL.

No. 817,685.

Specification of Letters Patent.

Patented April 10, 1906.

Application filed October 6, 1905. Serial No. 281,624.

*To all whom it may concern:*

Be it known that I, JULIUS ERYC ADAIR, a citizen of the United States, residing at Gat-liff, in the county of Campbell and State of Tennessee, have invented a new and useful Railway-Signal; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it apper-tains to make and use the same.

This invention relates to an attachment for semaphore train-order board or signal systems of the usual construction which consists merely of a telltale—that is, a device which an operator is supposed to turn down to cover the fastening means that holds the signal in the proper place—which will prohibit him from pulling a signal when he has orders.

The object of the invention is to provide a device of this character which will prevent an operator from forgetting an order in case he has one for a train when that train blows for his signal. Heretofore there has been nothing to prevent the operator from forgetting to place the signal in correct position. That being the case, the operator through mistake would pull the signal for a train for which he had orders, thereby running two trains together. Thus this device obviates this trouble.

This invention comprises further objects and combinations of elements, which will be hereinafter more fully described, and shown in the accompanying drawings, and the novel features thereof will be particularly pointed out by the appended claims.

To obtain a full and correct understanding of the details of construction and combination of features, elements, and advantages, reference is to be had to the hereinafter set forth description in connection with the accompanying drawings, wherein—

Figure 1 is a perspective view of the invention with the sides of the operator's chair closed, showing the other essential features in readiness to be operated. Fig. 2 is a perspective view of the invention with the sides of the operator's chair open. Fig. 3 is a detail perspective view looking at the under side of the operator's chair.

Making renewed reference to the accompanying drawings, wherein similar reference characters indicate the corresponding parts in the several illustrations by figures, 1 designates the floor of the operator's office, having the usual operator's table 2 thereon, upon

which table is the usual telegraph instrument 3, and said telegraph instrument is mounted upon the farther side of the table, in which case the tray 4 would lie in front of said instrument. Said tray is hinged to the side of the order-box 5, which is securely fastened to one end of the table 2, as shown clearly in Figs. 1 and 2 of the drawings. Mounted in the correct position in front of the table is the operator's chair 6, which is securely fastened to the floor, as at 7, and also having folding sides, which are hinged, as shown at 8, and having a spring-actuated means 9 to securely hold the sides of the chair open, as shown clearly in Fig. 4 of the drawings. Projecting from each side of the supporting-leg of the chair, as at 10, are suitable pulleys 11, which are adapted to have engaged therewith a suitable rope 12, the ends of which are securely fastened to arms 13, projecting from the under edge of the folding sides, which is clearly illustrated in Fig. 4 of the drawings. Connected to the rope 12, as at 14, is a suitable cable or rope 15, which is adapted to pass over a pulley 16, projecting from the under side of the flooring 1. Said rope or cable 15 is adapted to pass over another pulley 17, mounted at the other end of the flooring and projecting from the under side of said flooring substantially at the meeting-point of the floor and the vertical wall of the room. Said cable 15 is then adapted to pass through the flooring adjacent to the side wall of the room to and over a pulley 18, which is securely fastened to the ceiling of the room, as shown in Fig. 1 of the drawings. Branching from said cable 15, as at 19, is a series of ropes or cables 20, which are securely fastened to the levers 21, which are pivoted, as at 22, to the side wall, as shown in Fig. 1 of the drawings. Connected to the ends of the levers 21 are suitable ropes or cables 23, having hook devices 24, which are adapted to engage an eye 25 upon the front edge of the order-box 5—that is, when the operator wishes to display white upon the signaling device.

Attached to the tray 4, as at 26, is a rope or cable 27, which passes over a pulley 28 and then over another pulley, to which it is connected at the branching point of the ropes 20, as at 19, as shown in the accompanying drawings. Secured at the upper part of the side wall, or substantially at the meeting-point in the ceiling of the side wall, is a pair of guideways 30, having integral therewith a shield or cover 31, which is



adapted to hide the color of the signaling-slide 32. Said slide 32 is provided with a rope or cable 33, which is attached, as at 34, and adapted to pass over a pulley 35 and then over another pulley 36, after which it is connected, as at 37, to the cable or rope 15.

The operation of the device is as follows: For example, as the operator comes on duty he will find the hook device connected to the eye 25, which will of course hold the tray in vertical position and the operator's chair closed and at the same time display the color white. In this case it will be necessary for the operator to open his chair before he can get into a correct position to operate the telegraph instrument for the purpose of copying an order and while in this position he takes an order and for some cause he forgets it and goes to pull a signal-board when the train for which this order is intended calls for signal, which will cause the tray to stand substantially vertical, which will slide the forgotten order in the box, which will cover the eye to which the hook device is intended to be connected, which would of course remind the operator of his oversight. Train-order signals are supposed to display red at all times while the operator is on duty unless changed to white for a train to pass for which he has no orders.

In practical use the train-order board or signal is adapted to be connected to the semaphore in the usual manner; but as far as this application is concerned this connection forms no part of the present invention.

Of course it is distinctly understood that changes may be made in the proportions and details of construction and combination of parts without in any way departing from the spirit and scope of the invention.

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

1. In a device of the character described, the same comprising an operator's chair, having collapsible sides, an operator's table, a

hinged tray to cooperate therewith, and cable connections between the chair and tray to cause said tray and chair to operate in unison.

2. An attachment for train-order board signal systems, comprising an operator's chair, having collapsible sides, spring-actuated means therefor, an operator's table, a hinged tray to cooperate therewith, and cable and pulley devices connected between said tray and chair to cause the same to operate in unison.

3. An attachment for train-order board signal systems, comprising an operator's chair, having collapsible sides, an operator's table, an order-box secured to one end of said table, a tray to cooperate between said box and said table, cable and pulley devices between said tray and said chair to cause the same to be operated in unison, hook devices at each end of each cable, and an eye to cooperate with said hook devices to hold the sides of the chair in collapsed position.

4. An attachment for train-order board signal systems, comprising an operator's chair, having collapsible sides and spring-actuated means therefor, an operator's table, a train-order box, a tray to cooperate between said order-box and said table, and cable and pulley devices to cooperate between said tray and said chair to cause the same to be operated in unison.

5. An attachment for train-order board signal systems, comprising in combination with an operator's chair, having collapsible sides, an operator's table, a hinged tray to cooperate therewith, and cable connections between the chair and tray to cause said tray and chair to operate in unison.

In testimony whereof I have hereto affixed my signature in the presence of two witnesses.

JULIUS ERYC ADAIR.

Witnesses:

A. A. RICHARDSON,  
ARTHUR V. BROWN.