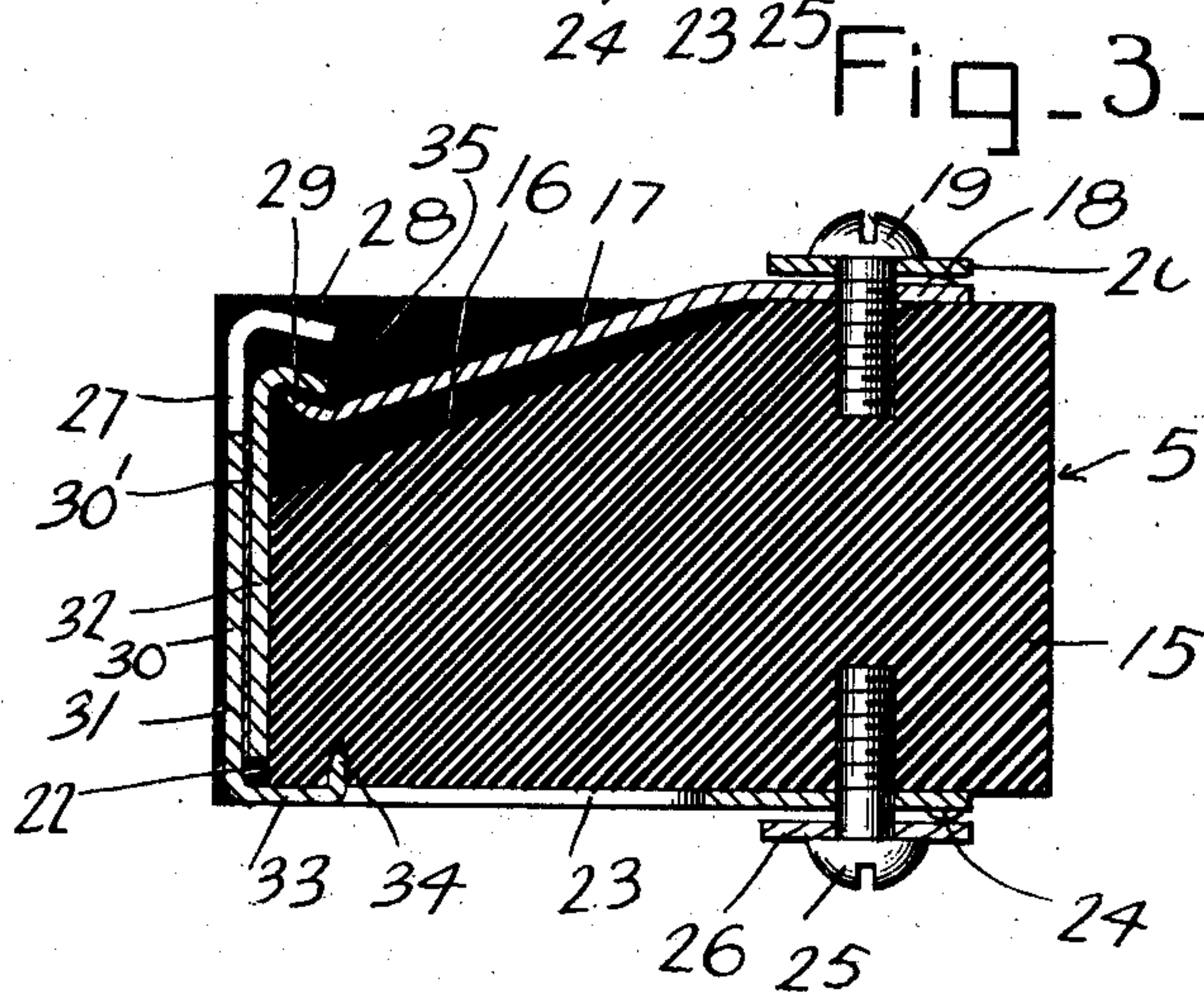
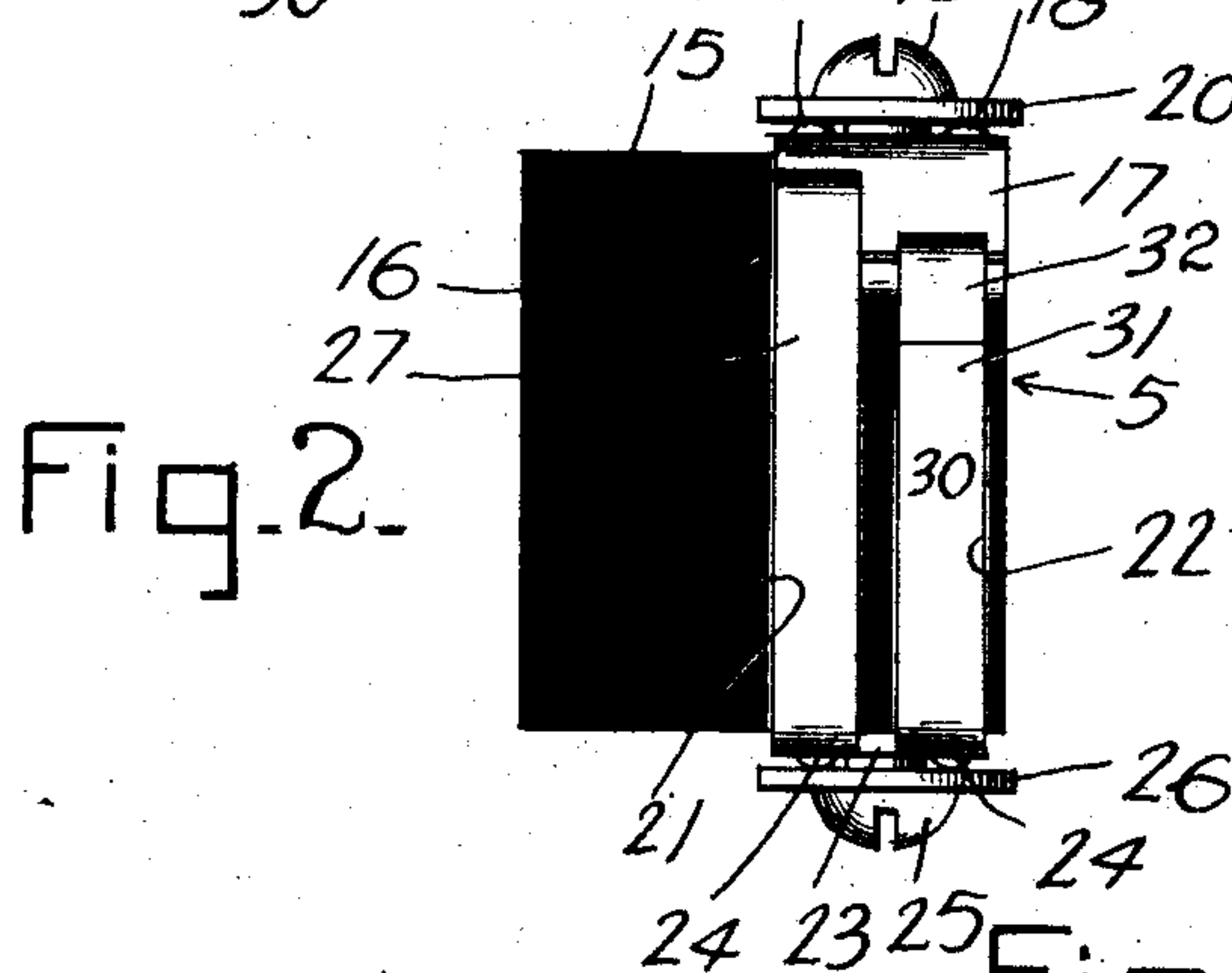
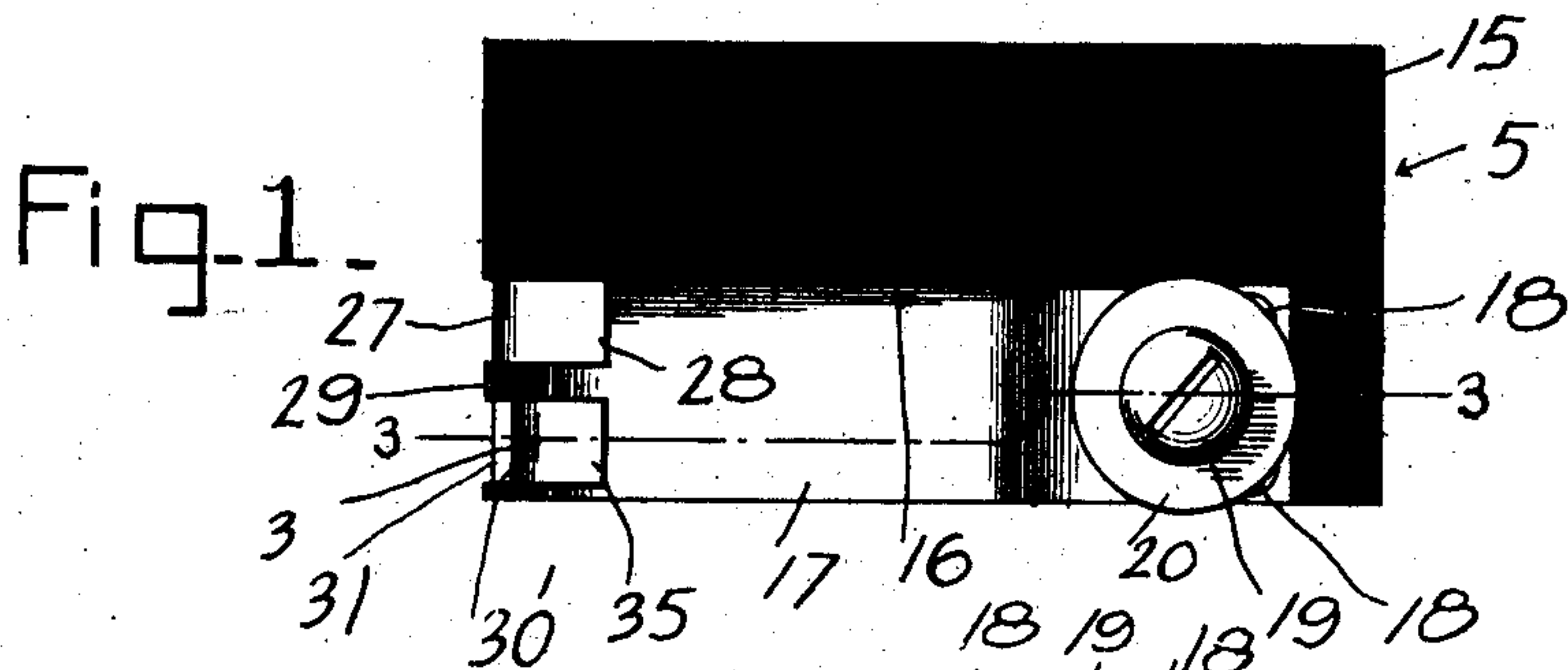


No. 884,304.

PATENTED APR. 7, 1908.

A. S. TRASK.  
FIRE ALARM.

APPLICATION FILED MAY 14, 1907.



Witnesses

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# UNITED STATES PATENT OFFICE.

ALBERT S. TRASK, OF CONCORD, NEW HAMPSHIRE.

## FIRE-ALARM.

No. 884,304.

Specification of Letters Patent.

Patented April 7, 1908.

Application filed May 14, 1907. Serial No. 373,643.

*To all whom it may concern:*

Be it known that I, ALBERT S. TRASK, a citizen of the United States, residing at Concord, in the county of Merrimack, State of New Hampshire, have invented certain new and useful Improvements in Fire-Alarms; 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 appertains to make and use the same.

This invention relates to new and useful improvements in fire alarms for residences and more particularly it has reference to an electric alarm including in its adjuncts a thermostatic circuit closer.

The invention aims as a primary object to provide a thermostatic circuit closer, including a novel construction, combination, and arrangement of parts, the details of which will appear in the course of the following description, in which reference is had to the accompanying drawings forming a part of this specification, like characters of reference designating similar parts throughout the several views, wherein:

Figure 1 is a top plan view of the thermostatic circuit closer embodied in the present invention. Fig. 2 is an end elevation thereof, and Fig. 3 is a longitudinal section on the line 3—3 of Fig. 1.

The thermostatic circuit closer is designated by the numeral 5 and comprises an insulating base 15 which at one side thereof is cut away as at 16, to afford an angular recess. Overhanging the recess 16, is a spring contact finger 17 which is secured at one end by suitable pins 18 and which has threaded therethrough a screw 19, coöperating with the washer 20 to afford a binding post for one end of the wire 2. One of the end faces of the block 15 is formed with parallel channels 21 and 22. A stationary contact member 23 has one end secured to the block 15 by pins 24 and a screw 25 is threaded through said member and coöperates with a washer 26 to afford a binding post. The member 23 includes an upwardly bent portion 27 terminating in a hooked end 28, the portion 27 being disposed in the channel 21 with its hooked end 28 overhanging the angular edge portion 29 of the finger 17. For the purpose of holding the finger 17 away from the end

28 of the member 23, a detent 30 is provided which comprises members 31 and 32, connected by fusible solder 30', the latter being preferably fusible at a temperature of 150° F. The member 31 is constructed with an angular end 33 terminating in a spur 34 which is engaged in the material of the block 5 and the member 32 is constructed with an angular end 35 which engages the end 29 of the finger 17 and maintains said finger away from the finger 23. It will be understood that the detent 30 is shorter than the bent portion 27, in order to hold the end of the finger 17 away from said bent portion.

In use, when the heat attains an excessive degree, the fusible solder 30' will melt and the members 31 and 32 will become disconnected, thereby allowing the spring finger 17 to engage the end 28 of the member 23 and to close the alarm circuit.

The present invention is simple in construction, inexpensive to manufacture and install and practical and efficient in use.

From the foregoing description it will be seen that simple and efficient means are provided for accomplishing the objects of the invention, but while the elements herein shown and described are well adapted to serve the functions set forth, it is obvious that various minor changes may be made in the proportions, shape and arrangement of the several parts without departing from the spirit and scope of the invention as defined in the appended claim.

What is claimed is:

In a system of the class described, a thermostatic circuit closer, comprising a block of insulating material and formed with a recess, a spring contact finger overhanging said recess, a stationary contact member having an angular end overhanging said spring finger, and a stationary detent for said spring finger comprising members connected by fusible solder, one of said members being formed with an angular end for engagement with said finger.

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

ALBERT S. TRASK.

Witnesses:

BENJAMIN W. COUCH,  
J. T. AKROYD.