

J. F. SMILEY.
ELECTRIC SWITCH.
APPLICATION FILED APR. 27, 1910.

966,252.

Patented Aug. 2, 1910.

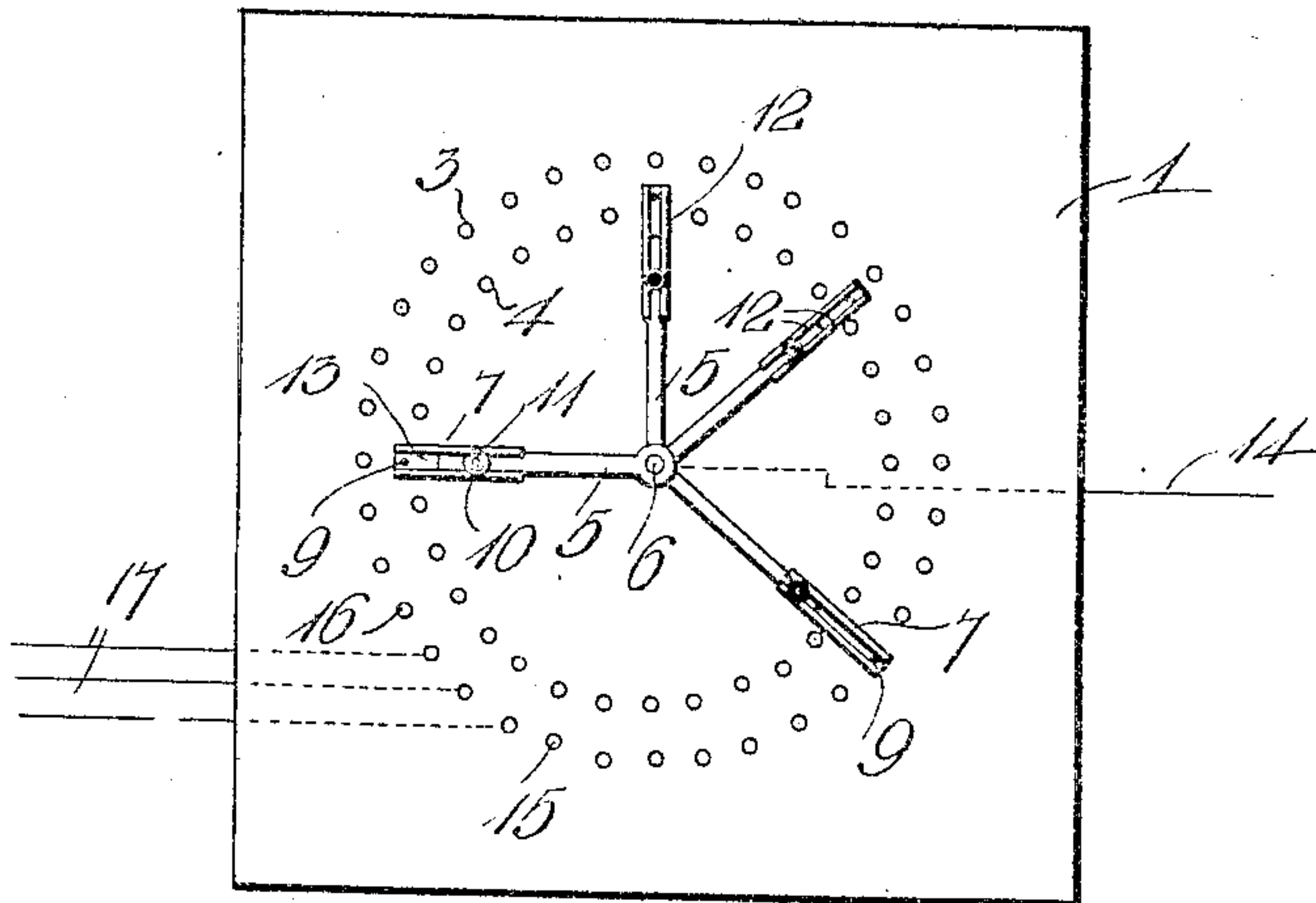


FIG. 2

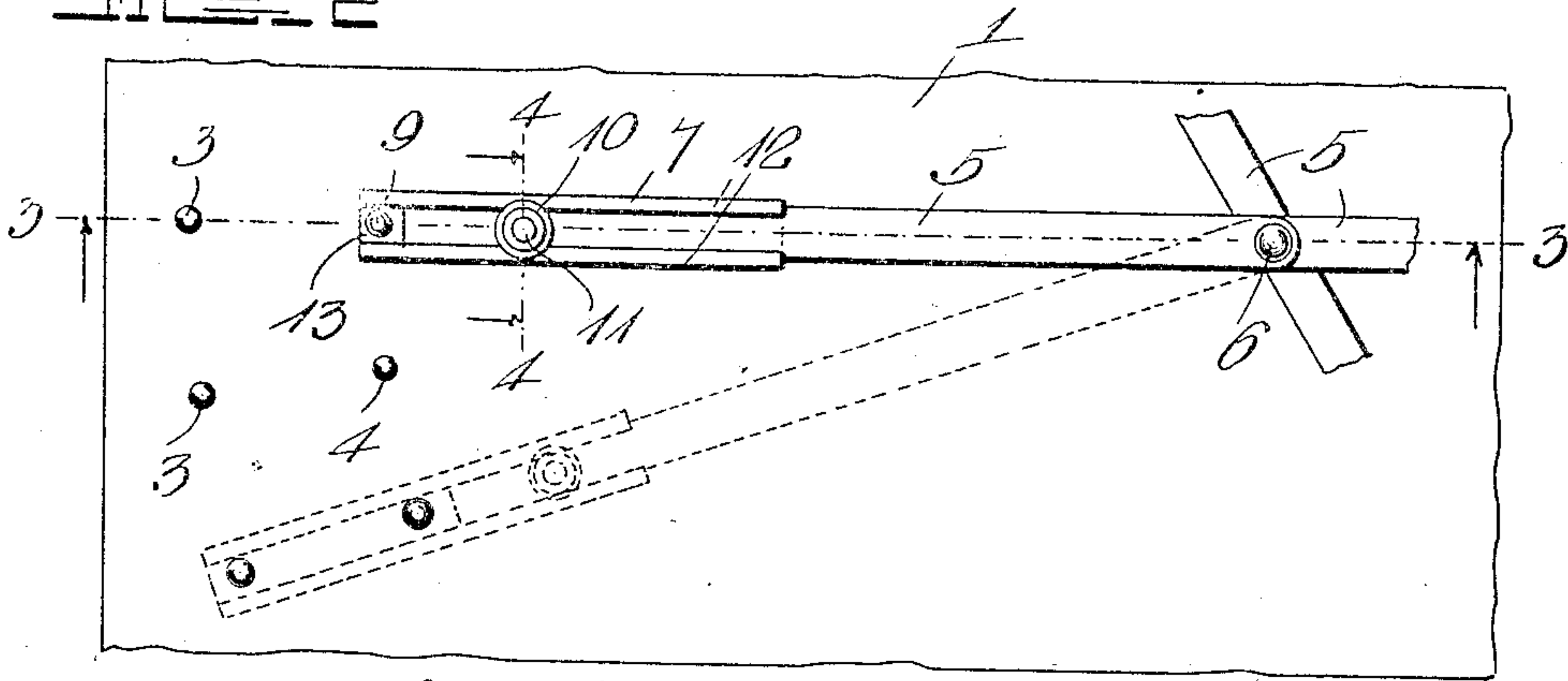


FIG. 3

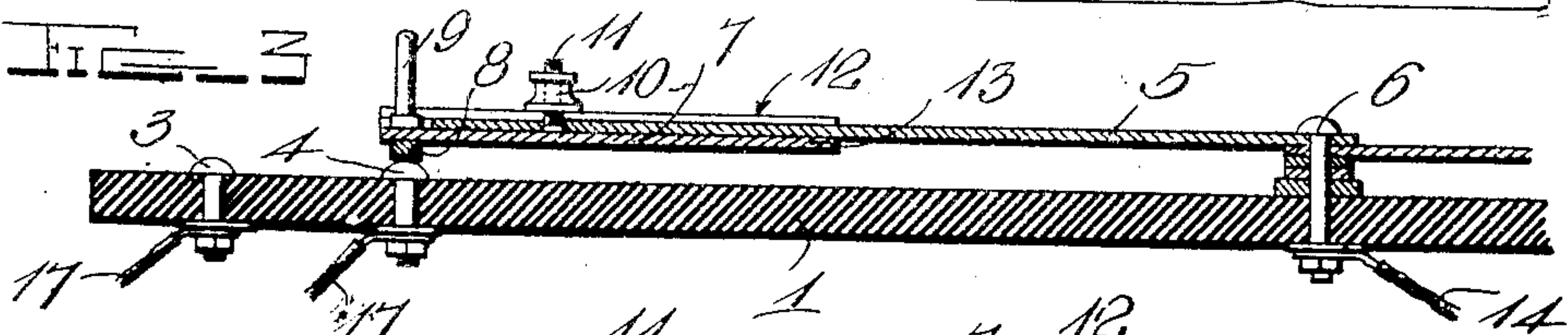


FIG. 4

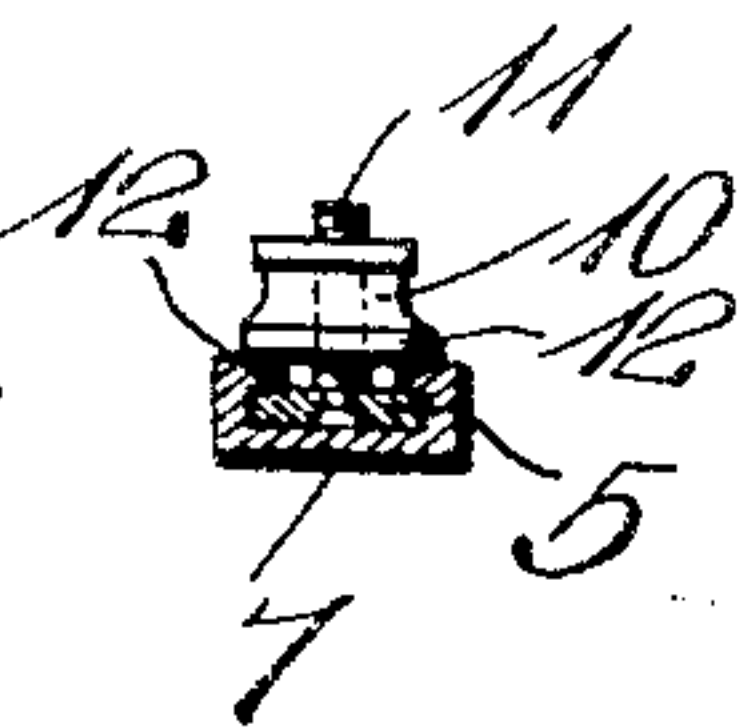


FIG. 5

Witnesses
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UNITED STATES PATENT OFFICE.

JOHN F. SMILEY, OF LOUISVILLE, KENTUCKY.

ELECTRIC SWITCH.

966,252.

Specification of Letters Patent.

Patented Aug. 2, 1910.

Application filed April 27, 1910. Serial No. 557,348.

To all whom it may concern:

Be it known that I, JOHN F. SMILEY, a citizen of the United States, residing at Louisville, in the county of Jefferson and State of Kentucky, have invented certain new and useful Improvements in Electric Switches; and I do 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 an improvement in electric switches especially designed for use in connection with electric score boards such as are shown in my pending application Serial No. 535,587, filed Dec. 30, 1909.

With the foregoing and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts as will be more fully described and particularly pointed out in the appended claims.

In the drawings, Figure 1 is a plan view of a portion of a switch board showing this improved switch applied. Fig. 2 is a plan view of a portion of a switch board showing one of the switches constructed in accordance with this invention, the dotted lines indicating a second position of the switch. Fig. 3 is a vertical sectional view. Fig. 4 is a detail perspective view of a portion of the switch lever. Fig. 5 is a detail perspective view of the extension member of the switch arm.

In the embodiment illustrated is a switch board, 1, provided with two concentric series of contact buttons 3 and 4 respectively, the inside series of buttons 4 being adapted to be connected with one set of lights of the score board in connection with which it is to be used and the outside series of buttons 3 with the other set of lights of said board. A series of switch arms 5 are pivoted at their inner ends upon the bolt, 6 which passes through the switch board 1, it being understood that said bolt is located at the common center for the circles described by the two series of buttons 3 and 4.

Each of the switch arms 5 is preferably made in the form of a flat metal strip provided at its outer end with an extensible section 7, having a contact shoe 8 and a finger piece 9 which latter is designed to be grasped by the operator to swing the switch arm from one position to another. The adjustable sections of the switch arms may be

retained in either of their two positions by the thumb nuts, as 10, which screw upon threaded studs 11 which project outwardly from the switch arms between the inwardly bent flanges 12 of the body portions 13 of the extensible sections 7. When the extensible sections 7 are in their innermost position they are adapted to engage the contact buttons 4 and when in their extended positions, engage the outer series of contact buttons 3. A main feed wire 14 is connected with the pivot bolts 6 in any well known manner.

In the operation of this device when it is desired to indicate a certain play on the score board, the contact shoe of one of the switch arms 5 is moved into engagement with the contact button 15 of the outer series of buttons 3 and when it is desired to indicate other plays in the game the switch arm 5 is swung into the arc of a circle until its contact shoe engages the contact button 16. During the operation of moving said switch arm 5 from its first position to the contact button 16, one set of lamps of the series on the score board, not shown, will be successively illuminated and extinguished.

The contact buttons 3 and 4 are each connected with a circuit wire, as 17, (see Fig. 3) to provide for the closing of the circuit by the movement of the switch shoe of the extension member 7 into engagement with said buttons.

From the foregoing description taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention.

What I claim as new is:

1. A switch board for an electric score board comprising a plurality of main switch arms and adjustable extensions carrying contact shoes slidably mounted thereon.

2. In a switch board a pivoted switch arm, a longitudinally adjustable extension member slidably on the outer end of said arm, a contact shoe at the outer end of the extension member and means for holding said extension member in adjusted position.

3. A switch board provided with two concentric series of contact buttons, a series of switch arms pivoted at their inner ends at

the common center for the circles described by the two sets of buttons, extension members mounted on said arms provided with contact shoes for engagement with said buttons and means for swinging the switch arms from one position to another.

In testimony whereof I have hereunto set

my hand in presence of two subscribing witnesses.

JOHN F. SMILEY.

Witnesses:

C. J. MEDDIS,
A. McVaw.