D. T. FISHER.

ILLUMINATED SIGN.

APPLICATION FILED NOV. 1, 1909.

966,538. Patented Aug. 9, 1910.

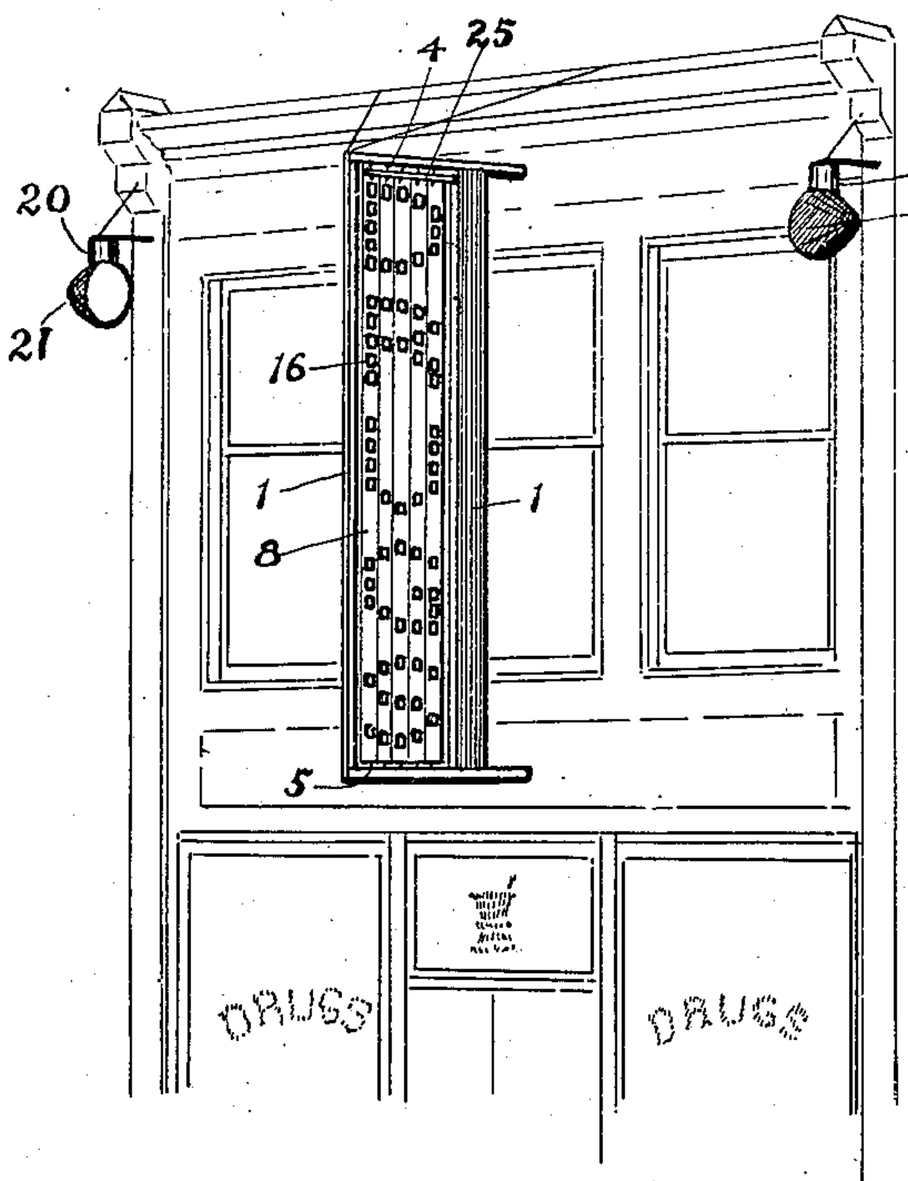

Fig. 1.

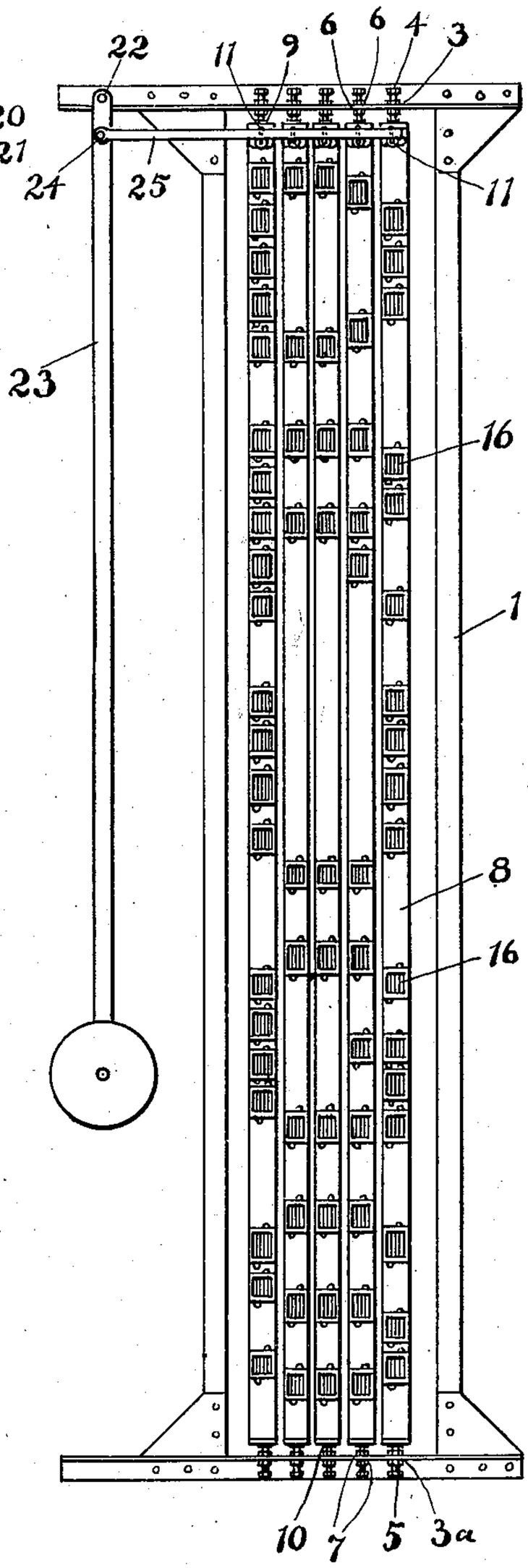

Fig. 2.

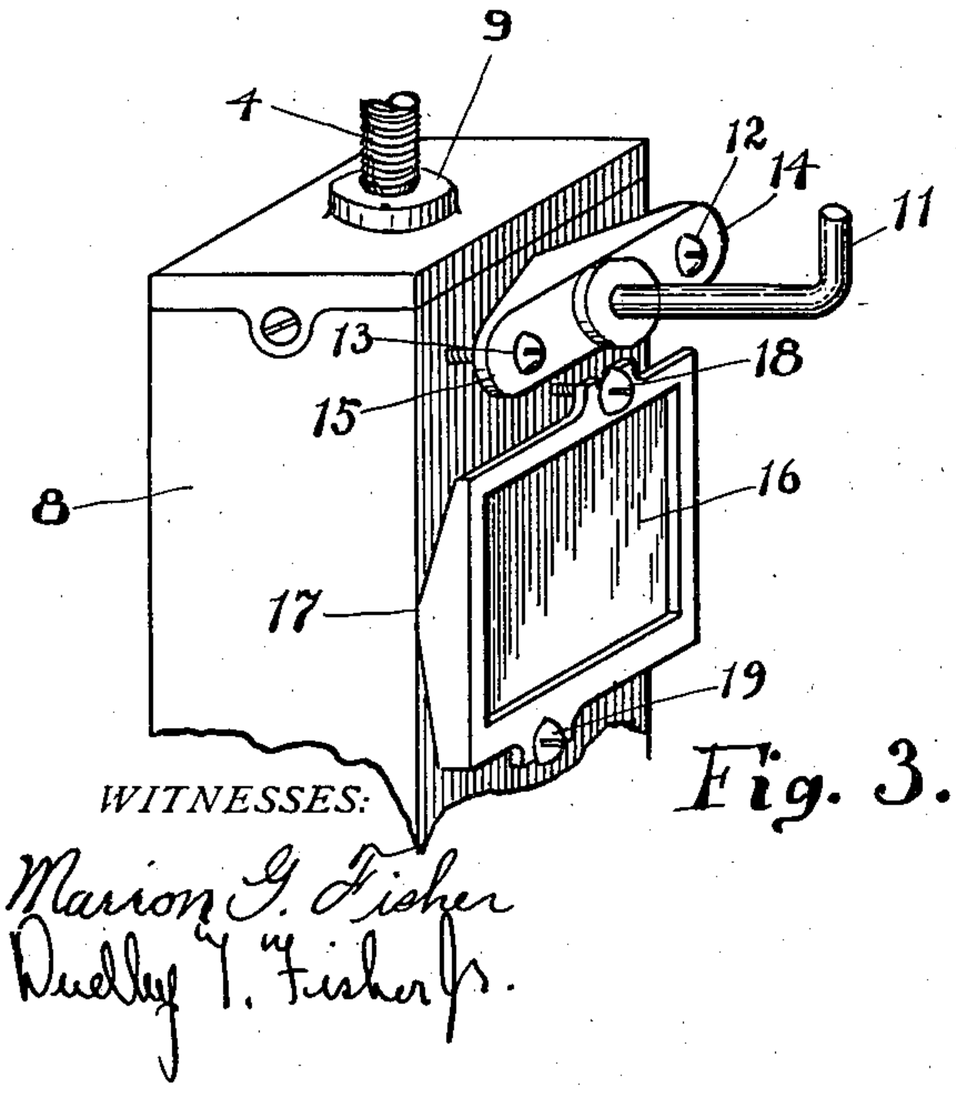

Fig. 3.

WITNESSES:

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UNITED STATES PATENT OFFICE.

DUDLEY T. FISHER, OF COLUMBUS, OHIO.

ILLUMINATED SIGN.

966,538. Specification of Letters Patent. Patented Aug. 9, 1910.

Application filed November 1, 1909. Serial No. 525,661.

To all whom it may concern:

Be it known that I, DUDLEY TYNG FISHER, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented a new and useful Illuminated Sign, of which the following is a specification.

My invention relates to improvements in illuminated signs, particularly of the type in which a plurality of mirrors are so disposed as to form the characters of a sign and are so adjusted as to reflect the light from a conveniently placed illuminant in a common beam; means being provided to simultaneously oscillate said mirrors, causing an apparent alternate flashing and extinction of the reflected light. I attain these objects by the mechanism hereinafter described, and illustrated in the accompanying drawings, of which—

Figure 1 represents such a sign in position on the front of a building; Fig. 2 is an enlarged view of such a sign showing one method of oscillating the mirrors; Fig. 3 is a fragmentary view showing one method of adjusting the angles of the mirrors to the light.

Referring to the drawings. A supporting frame (1) has perforations (3) and (3ª) in the top and bottom members through which pass cone pointed set screws (4) and (5) with lock nuts (6) and (7) by which said screws may be adjusted and secured. Positioned within the frame (1) are vertical, parallel bars (8) having sockets (9) and (10) which engage the points of the screws (4) and (5) giving a pivotal support upon which said bars may be rotated. Attached to bars (8) are crank arms (11) secured thereto by screws (12) and (13) extending through wings (14) and (15) thereby providing for variation of the angle formed between the face of the bar (8) and crank arm (11). Secured to the face of the bars (8) are mirrors (16) having horizontal bearings (17) on which, by adjustment of the attachment screws (18) and (19) the mirrors may be rocked, varying their angles with the face of the bar (8). Conveniently located so as to illuminate the face of the sign but not to obstruct a full view of it, is a lamp (20), preferably an electric arc, having a reflector (21) so disposed as to present a broad surface of light toward the sign and to screen the light in the direction of the beholder. Attached to the frame (1) is a pivot (22) on which hangs a pendulum (23) having a pivot (24) and connecting rod (25) engaging with all of the crank arms (11).

The operation is as follows: The mirrors (16) being so spaced on the bars (8) as to form the characters of the sign; the crank arms (11) are adjusted by the screws (12) and (13) to bring the bars into such position that the mirrors on the several bars shall reflect the light from the lamp (20) in parallel vertical planes. The individual mirrors (16) are then adjusted by the screws (18) and (19) so that the reflected beams from all the mirrors on each bar shall be parallel. With the mirrors thus adjusted the light will be simultaneously visible in all the mirrors, giving the appearance of a large number of lights arranged to form the characters of the sign. As the reflector (21) presents a broad surface of light the reflection may be seen from points throughout a comparatively wide angle.

The vibration of the pendulum (23) and connecting rod (25) causes the crank arms (11) and bars (8) connected therewith to oscillate in unison, causing the reflected beams to swing back and forth across the field of vision, thus giving a flashing appearance to the sign.

It is apparent that other methods of causing the oscillation of the bars (8) may be used, that described being one which under some circumstances is convenient, but any motive power may be applied to the connecting rod that will accomplish the same result.

I have set forth and illustrated details of attachment of the mirrors to the bars and means for their adjustment, but do not confine myself to such details, as numerous other methods within the scope of the appended claims will present themselves for accomplishing the same result.

It is apparent that with the construction here shown the mirrors (16) may be rearranged on the bars (8) by removing the screws (18) and (19) and reassembling the mirrors to form different characters to suit the conditions of the times or the desires of the owner.

What I claim as novel in this invention and desire to secure by Letters Patent is:

1. A sign composed of a supporting frame, parallel bars rotatably mounted therein upon their longitudinal axes, means for causing the bars to oscillate in unison, mirrors at-

tached to said bars arranged to form characters, a lamp so located that its light will be reflected by said mirrors and means for adjusting the angle,of the mirrors with relation to the light from said lamp, substantially as set forth.

2. A sign having characters formed of a plurality of mirrors, an illuminant furnishing light reflected by said mirrors, means for adjusting said mirrors relative to said illuminant, and means for oscillating said mirrors in uinson, substantially as set forth.

3. A supporting frame, adjustable pivots disposed upon said frame, parallel bars having sockets adapted to engage with said pivots, crank arms attached to said bars, means for adjusting the angle of said crank arms with the faces of the bars to which said crank arms are attached, a common rod connecting said crank arms with each other, means for actuating said rod to oscillate said bars, mirrors attached to said bars, a light reflected by said mirrors and means for adjusting the angle of said mirrors to said light, substantially as set forth.

4. In a sign of the character described, mirrors adapted to be attached to said sign to form the characters thereof, means whereby said mirrors may be rearranged to form different characters, a light reflected by said mirrors,. means for adjusting said mirrors relative to said light, and means for causing the flashing of said reflected light, substantially as set forth.

DUDLEY T. FISHER.

Witnesses:

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