

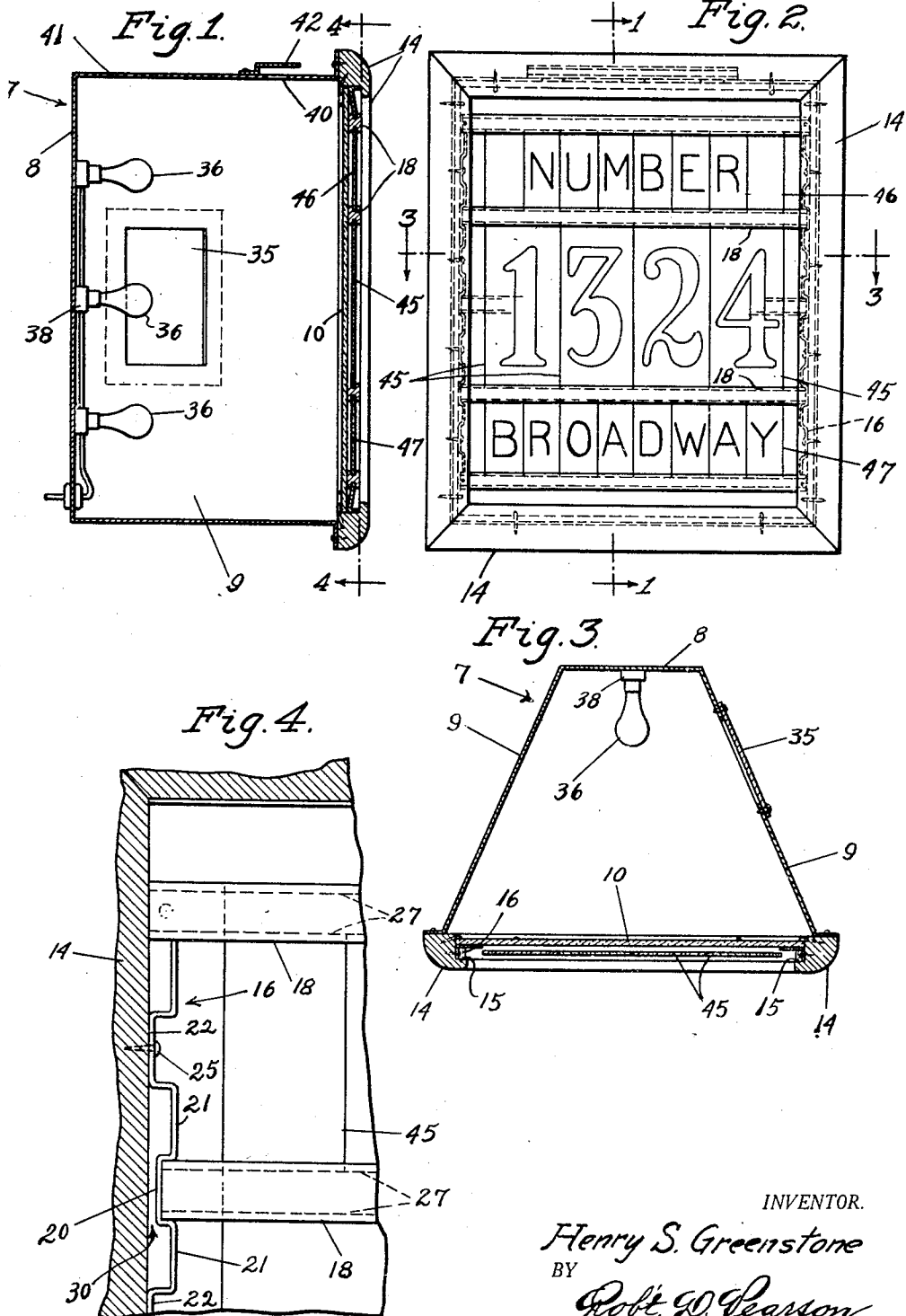
Jan. 12, 1932.

H. S. GREENSTONE

1,841,026

DISPLAY DEVICE

Filed June 27, 1931



INVENTOR.

Henry S. Greenstone

BY

Robt. W. Pearson

ATTORNEY.

## UNITED STATES PATENT OFFICE

HENRY S. GREENSTONE, OF LOS ANGELES, CALIFORNIA

## DISPLAY DEVICE

Application filed June 27, 1931. Serial No. 547,320.

This invention relates to an alluminated display device adapted to display in an advantageous manner advertising matter, pictures, and various other matter which it is desired to vary from time to time.

An object of the invention is to provide improved resilient means for removably sustaining a series of bars or other supporting members which are designed to hold the placard upon which letters, pictures, et cetera, may be inscribed in position for illumination and for convenient inspection.

Another object of the invention is to improve various details of construction of devices of the kind stated with regard to simplicity of construction, low cost of manufacture, and convenience of assembling.

Still another object of the invention is to provide an illuminated display device wherein a translucent face plate will be combined in a more advantageous manner, not only with the bars which support the letters or other matter to be displayed, but also with novel springs of a simplified and improved construction to retain the bars removably in an operative position.

Other objects, advantages and features of the invention may hereinafter appear.

Referring to the accompanying drawings which illustrate what is at present deemed to be a preferred embodiment of the invention,

Fig. 1 is a vertical section of the device taken on line 1—1 of Fig. 2.

Fig. 2 is a front elevation of the device.

Fig. 3 is a transverse section taken on line 3—3 of Fig. 2.

Fig. 4 is an enlarged vertical sectional detail taken on line 4—4 of Fig. 1.

Referring in detail to the drawings, the casing 7 is of a quadrilateral character as viewed in cross section and having the comparatively narrow rear wall 8, side walls 9 and a face plate 10 which is disposed oppositely to the back or rear wall 8, said face plate being composed of transparent or translucent material. The face plate 10, preferably of a rectangular form, is shown provided along each of its four sides with a molding 14, the vertical portions of said molding

being provided with a groove or recess 15 which extends along the outer face of each vertical margin of the face plate 10. Within each of said grooves 15 is seated a leaf spring 16 which is adapted to releasably support a series of transversely extending placard-supporting bars 18.

As well shown in Fig. 4 each leaf spring 16 is so bent as to provide therein a series of spaced seats 20 which is adapted to receive an end portion of any one of the bars 18, and at each side of each seat 20, said spring is provided with a rise 21. Midway between each of the seats 20 the leaf spring 16 is bent to a greater depth as indicated at 22, these deep portions 22 of the spring being designed to rest upon the edge portion of the molding 14 at the bottom of the groove 15 thereof. At these points the leaf spring 21 is preferably secured to the molding by any suitable attaching device such as the tacks or small nails 25.

Each of the placard-supporting bars 18 is provided at its opposite edges with a groove 27 which is adapted to receive an edge portion of one of the placards 45. Owing to the fact that the seats 20 of each spring 16 are not so deep as the intervening seats 22, a clearance 30 is provided between the spring opposite each seat 20 and the adjacent edge of the molding as is clearly shown in Fig. 4. This clearance 30 permits the spring to be sprung down opposite such clearance whenever it is desired to insert or remove the end portion of the bar 18 which is to be supported in said seat. The placard-supporting bars 18 are resilient and are relatively narrow and therefore can be sprung sufficiently in an edgewise manner to permit insertion of the placards between them after said bars have been mounted with their end portions occupying the seats 20. The resiliency of the bars 18 also aids the operator in springing the end portions of said bars into the seats provided for them.

Referring to certain details of construction, the casing 7 is provided with a door 35 to admit the lamp globes 36 which are mounted inside the casing over lamp sockets 38 in any well known approved manner. The de-

vice is provided with a ventilating opening 40 in its upper end wall 41, said ventilating opening preferably being covered by a shield 42 in spaced relation thereto.

5 The leaf spring 16 is shown as a relatively narrow strip of resilient material being so bent that the seats 22 and 20 extend from edge to edge thereof and the walls at each side of these seats extend at substantially a right  
10 angle to the adjacent portions of the spring. The invention, however, is not limited to the exact form of bends illustrated as the seats may, if desired, be made with more or less sloping sides, or otherwise varied within the  
15 scope of the appended claims without departing from the spirit of the invention. The lower portions of said seats form shoulders which are directed toward the midwidth of the device and upon which the end portions  
20 of the bars 18 may rest.

In Fig. 1 of the drawings a large placard 45 is shown occupying the central portion of the face plate while a small placard 46 is  
25 located in the upper portion thereof and also another smaller placard in the lower portion of the face plate. By providing a considerable number of seats 20 formed in the springs 16 in properly spaced relation to each other, a greater variety of adjustments may  
30 be obtained with regard to the spacing of the placard supporting bars 18.

The display device provided by this invention is not limited to the illuminating feature, but may be used independently thereof to  
35 support placards on billboards or in the directories of office buildings.

I claim:

1. In a device of the kind described, a casing having a translucent face plate, illuminating means within said casing to direct light  
40 through said face plate, a leaf spring extending along a marginal portion of the outer face of said face plate, said spring having a series of spaced seats therein, and a plurality  
45 of bars having end portions adapted to spring into said seats.

2. In a device of the kind described, a casing having a translucent face plate, illuminating means within said casing to direct  
50 light through said face plate, an upwardly and downwardly extending leaf spring located at each vertical margin of said face plate, each of said springs having a plurality of seats the bottom portions of which are  
55 directed away from the central portion of the face plate, and a plurality of bars adapted to support placards, said bars each having end portions which are adapted to be sprung into and out of said seats.

3. In a device of the kind described, the combination with a face plate and means for directing light therethrough; of a retaining  
60 spring mounted to extend along a marginal portion of said face plate, said spring consisting of a relatively narrow strip of re-

silient material, which is provided with a series of bends thereby forming in said strip a series of seats which extend across the entire width thereof.

4. In a device of the kind described, the combination with a face plate and means for directing light therethrough; of a retaining spring mounted to extend along a marginal portion of said face plate, said spring consisting of a relatively narrow strip of resilient material, which is provided with a series of bends thereby forming in said strip a series of seats which extend across the entire width thereof, relatively deep seats alternating with relatively shallow seats in said series, and fastening means whereby the parts of the spring having the deep seats are secured to the remainder of the device.

5. In a device of the kind described, the combination with a face plate; of a retaining spring mounted to extend along a marginal portion of said face plate, said spring consisting of a relatively narrow strip of resilient material, which is provided with a series of bends thereby forming in said strip a series of seats, relatively deep seats alternating with relatively shallow seats in said series, and fastening means whereby said spring is secured in place in such a manner as to permit flexion of the portions thereof containing said deep seats.

6. In a device of the kind described, the combination with a face plate; of means extending vertically across said face plate and provided with a series of seats located at opposite margins of said face plate, and a series of placard-supporting bars having grooved edge portions, said bars being resilient to permit them to be deflected in an edgewise manner to receive the placards in the grooves thereof, the end portions of said bars being adapted to be supported in said seats.

7. In a device of the kind described, the combination with a pair of cooperating supporting members which extend in substantial parallelism to each other and each of which has a series of seats facing the other, of a set of placard-supporting bars which have longitudinally extending seats adapted to receive placards, the end portions of said bars being adapted to engage said seats, said supporting members being resilient, and said placard-supporting bars also being resilient, thus adapting said bars to have their end portions sprung into and out of the seats of said supporting members.

8. In a device of the kind described, a casing, a spring extending upwardly and downwardly along a marginal portion of said casing, said spring having a series of spaced shoulders which are directed toward the midwidth of the casing, and a plurality of bars having end portions adapted to rest upon said shoulders, the resiliency of said spring permitting said shoulders to be forced out-

wardly for the insertion of said bars in position to be supported by said shoulders.

9. In a device of the kind described, a casing, a plurality of resilient placard supporting bars, adapted to be supported by said bars, and a pair of elongated members, one of said members being located at one side of the casing and the other at the other side thereof, each of said members being provided with a plurality of seats which are directed toward the midwidth of the casing, the distances between said members being such that said resilient bars may have their end portions sprung into opposite seats for the purpose of supporting said bars and placards.

10. In a device of the kind described, the combination with a pair of cooperating supporting members which extend in substantial parallelism to each other and each of which has a series of seats facing the other, of a set of bars adapted to support placards, the end portions of said bars being adapted to engage said seats, said supporting members being resilient and said bars also being resilient thus adapting said bars to have their end portions sprung into and out of the seats of said supporting members.

In testimony whereof, I hereunto affix my signature.

HENRY S. GREENSTONE.