

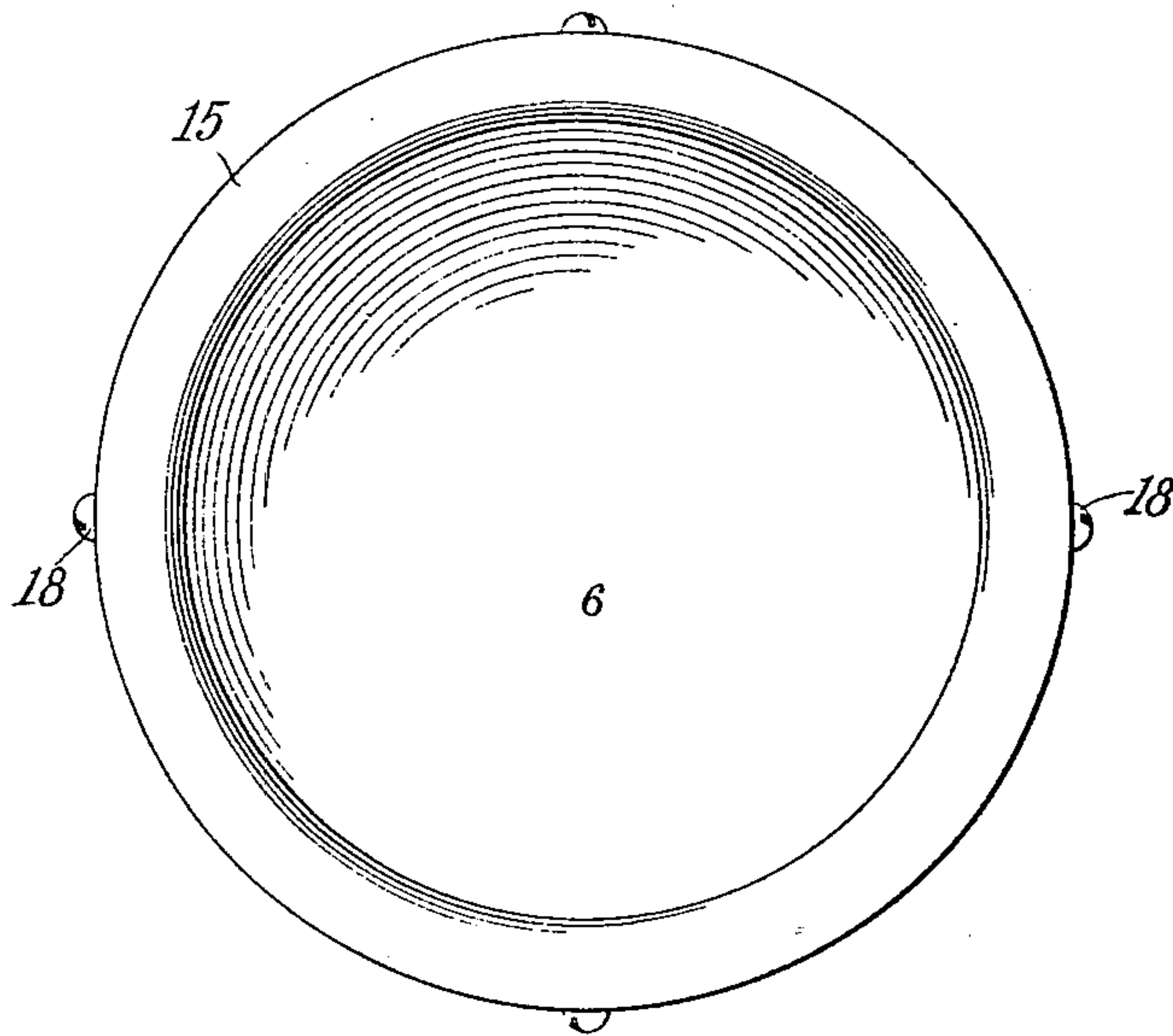
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No. 822,810.

PATENTED JUNE 5, 1906.

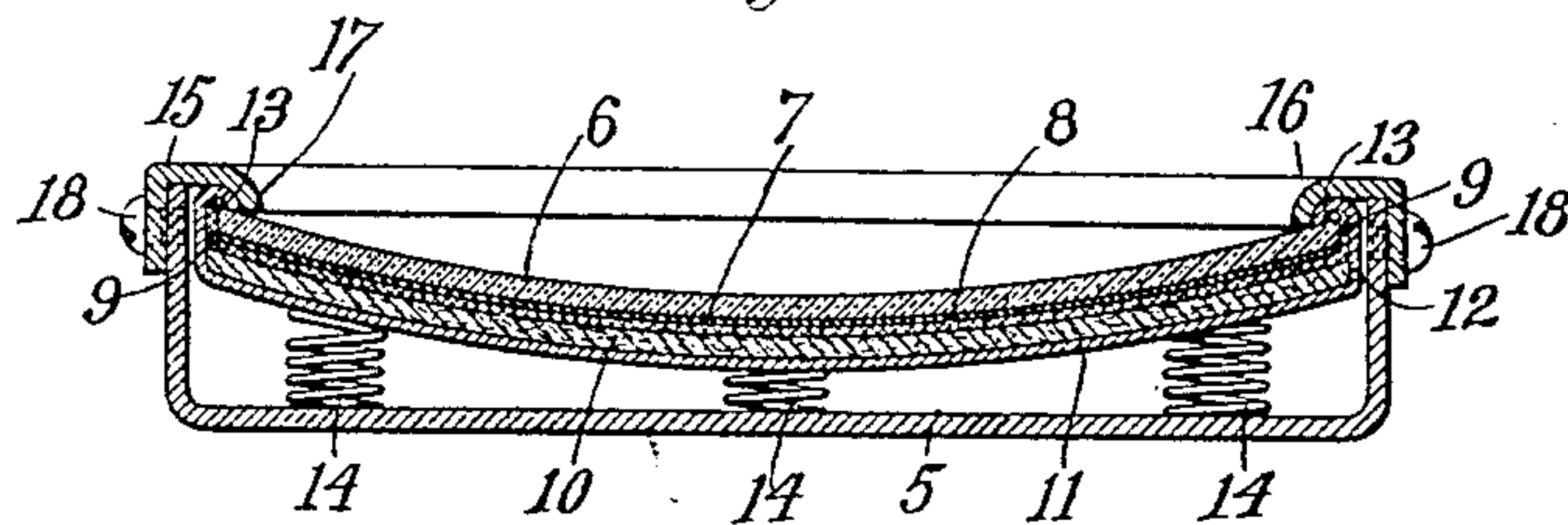
E. L. ZALINSKI.  
REFLECTOR.

APPLICATION FILED JUNE 27, 1905.

*Fig. 1.*



*Fig. 2.*



Witnesses  
Raphael Ketter  
Richard B. Camuagh.

Edmund L. Zalinski  
By his Attorneys, Efford & Bell



# UNITED STATES PATENT OFFICE.

EDMUND L. ZALINSKI, OF NEW YORK, N. Y.

## REFLECTOR.

No. 822,810.

Specification of Letters Patent.

Patented June 5, 1906.

Application filed June 27, 1905. Serial No. 267,282.

*To all whom it may concern:*

Be it known that I, EDMUND L. ZALINSKI, a citizen of the United States, and a resident of New York city, in the county of New York and State of New York, have invented certain novel and useful Improvements in Reflectors, of which the following is a full, clear, and exact description.

The present invention pertains to reflectors, and has particular application to an improved device embodying the essential and desired features of simplicity, durability, and effectiveness.

My improvement consists in the construction, combination, and arrangement of parts set forth and falling within the scope of the appended claims, and while I have in the present instance and for the purpose of illustration delineated herein one embodiment of my invention I wish it to be understood that I do not confine myself to all the precise details of construction herein set forth, as there may be modification and variation in certain respects without departing from the spirit or exceeding the scope of my claims.

In the accompanying drawings, wherein like characters of reference indicate like parts in both views, Figure 1 is a face view of an assembled reflector embodying my improvements. Fig. 2 is a vertical sectional view taken through the same.

Referring now to the accompanying drawings in detail, and especially to Fig. 2, the numeral 5 indicates the main outer casing of the reflector, which may be of any suitable shape and form and constructed of any material; but in the present instance I have shown the reflector as approximately circular in contour, and for most purposes I have found it desirable to form the casing-box of brass. The reflecting-body proper, which is indicated at 6, is in the form of a blown-glass plate approximately of parabolic form, the convex or back face of such glass being provided with a coating of silver, as at 7. Over this coating of silver is placed a covering of cloth or other textile, as at 8, the edges of the cloth extending over the edges of the glass, as shown at 9. I then place at the back of this textile covering a layer of asbestos cloth or other elastic non-heat-conducting material, such as is shown at 10, such layer being designed to permit the expansion of the mirror when heated. At 11 I have shown a brass backing-plate having the flanges 12, which plate

is adapted to fit closely over the asbestos layer, the inturned edge portions 13 of this brass backing-plate extending over and bearing against the end surface of the mirror, so that when the parts are assembled the backing layers and coverings will be clamped to the convex face of the reflecting-glass by the backing-plate. The parts thus assembled are then placed within the casing, and one or more spring tension devices, such as the springs 14, are interposed between the backing-plate and the bottom of the casing, so that the shocks and jars to which the reflector may be subjected to will to a certain extent be reduced, and at the same time the reflecting-surface will be at all times held in contact with the casing-covering 15. As will be noted by reference to the drawings, this casing-covering is designed to fit over the edge of the box or casing proper and is provided with a relatively large central opening 16, the edge of the wall surrounding said opening being beveled or inclined inwardly, as is shown at 17. The casing-covering may be secured to the casing-box in any suitable manner—such, for instance, by the small screws 18.

When the parts have been assembled in the form shown in Fig. 2, it will be observed that the reflector, with the backings therefor, will be flush or held in contact with the under surface of the casing-covering, and any jars or shocks to which the reflector is subjected will be borne by the springs. As stated, the interposition of the asbestos layer between the backing-plate and the textile sheet does not interfere with the extension of the mirror when subjected to heat, and the various parts going to make up the reflector may be easily and readily assembled. By forming the glass body of the reflector of blown glass I am enabled to obtain a surface of great smoothness, which when silvered forms an exceedingly brilliant reflecting-surface.

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

1. In a reflector, the combination with a reflecting-body, a rigid backing, and a yielding backing interposed between said body and said rigid backing, of a case inclosing said rigid backing and a spring interposed between said rigid backing and said case, whereby shocks and strains transmitted to



the back of the reflecting-body are cushioned by the spring and the yielding backing in succession.

2. In a reflector, the combination with a  
5 reflecting-body, a rigid backing, a yielding  
backing and a layer of heat-insulating material interposed between said body and said  
rigid backing, of a case inclosing said rigid  
backing, and a spring interposed between  
10 said rigid backing and said case, whereby  
shocks and strains transmitted to the back  
of said reflecting-body are cushioned by the  
spring, the heat-insulating material and the  
yielding backing in succession.

15 3. In a reflector the combination with a  
reflecting-body, of a plate behind said body

provided with a flange extending over the  
edge of the face thereof, a casing behind said  
plate provided with a detachable flange en-  
gaging with said body and plate, and springs 20  
interposed between said casing and plate  
whereby said body is constantly maintained  
in engagement with the flange of the casing  
by spring-pressure.

In testimony whereof I have signed my 25  
name to this specification in the presence of  
two subscribing witnesses.

EDMUND L. ZALINSKI.

Witnesses:

R. B. CAVANAGH,  
DAISY L. ROBINSON.