

No. 726,081.

PATENTED APR. 21, 1903.

R. MANCHA.
ILLUMINATING DEVICE.
APPLICATION FILED JAN. 5, 1903.

NO MODEL.

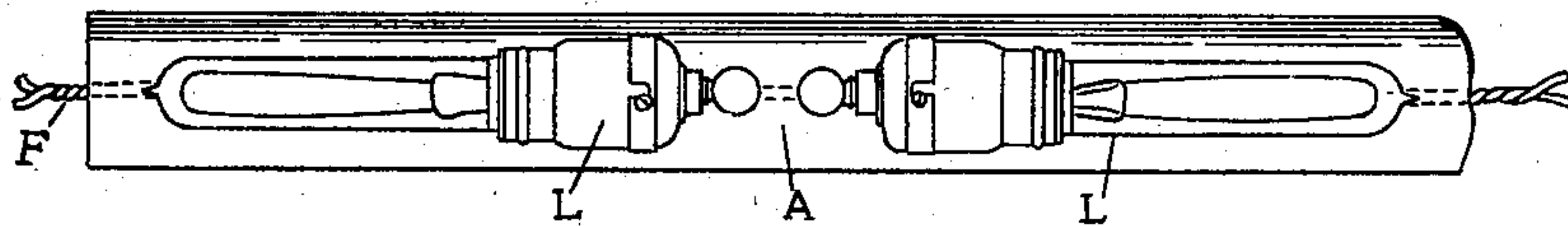


Fig. 1

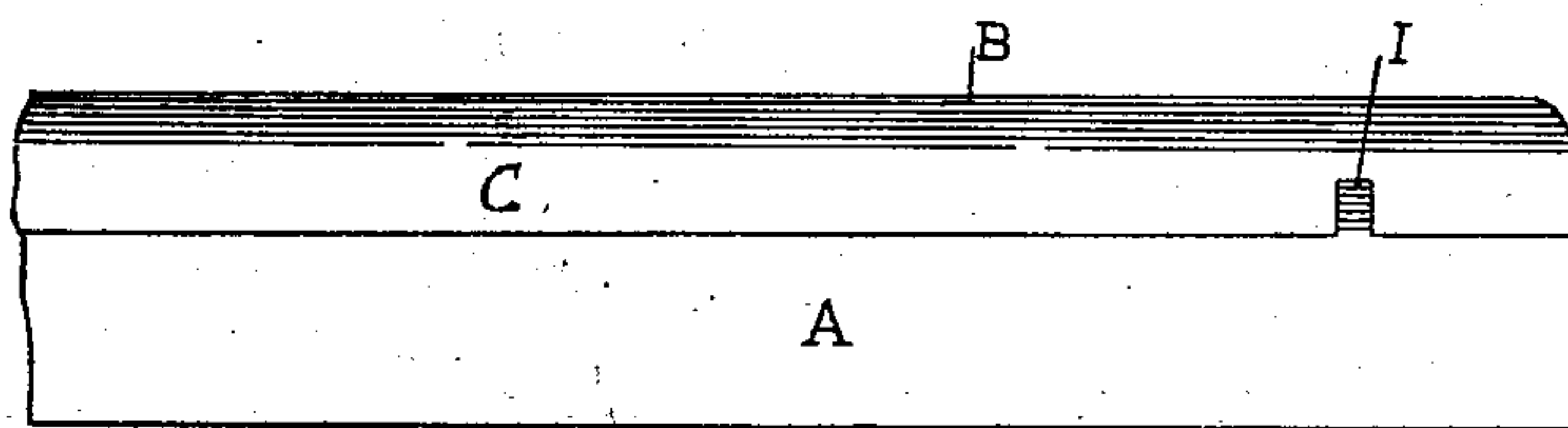


Fig. 2

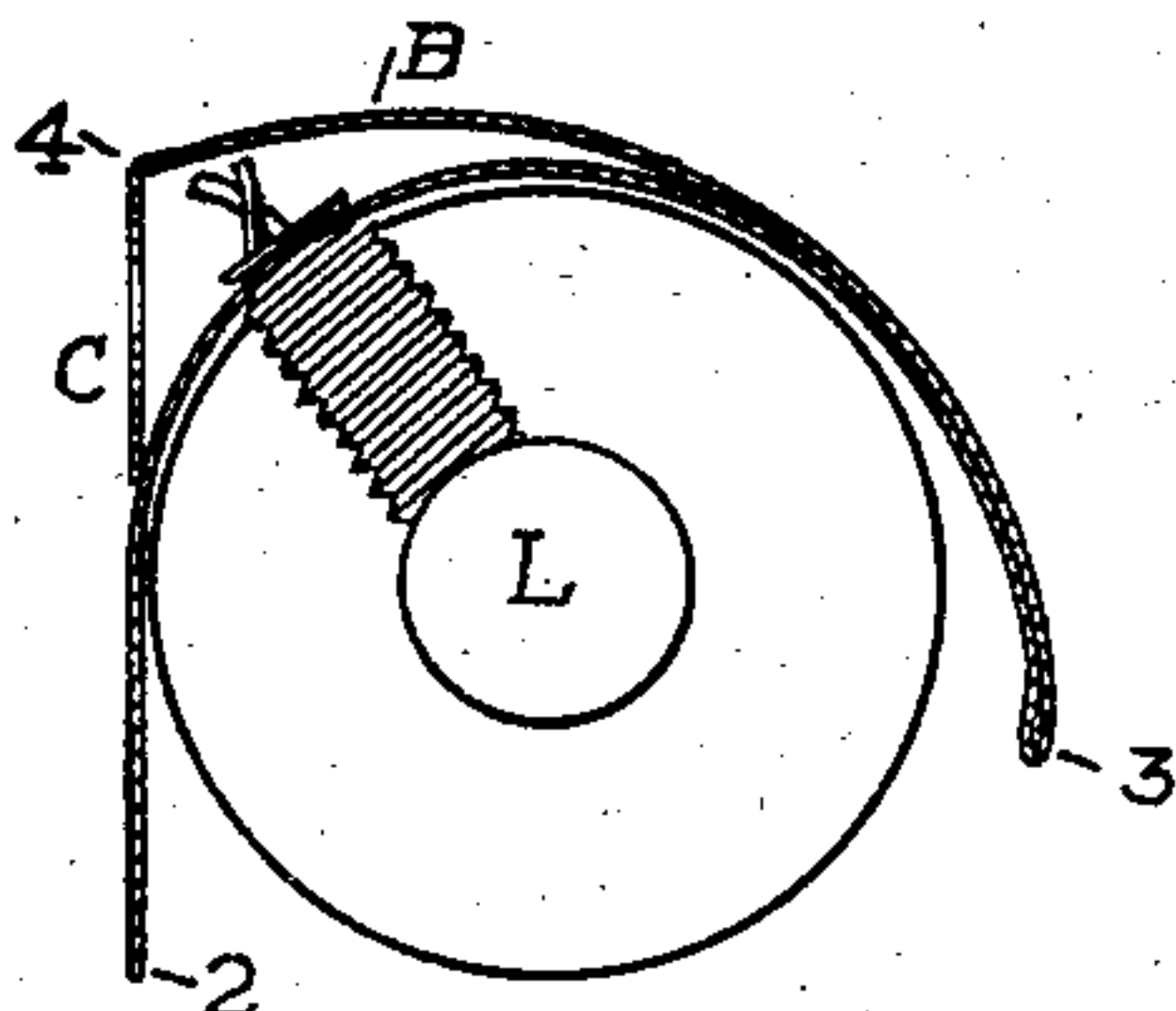


Fig. 3

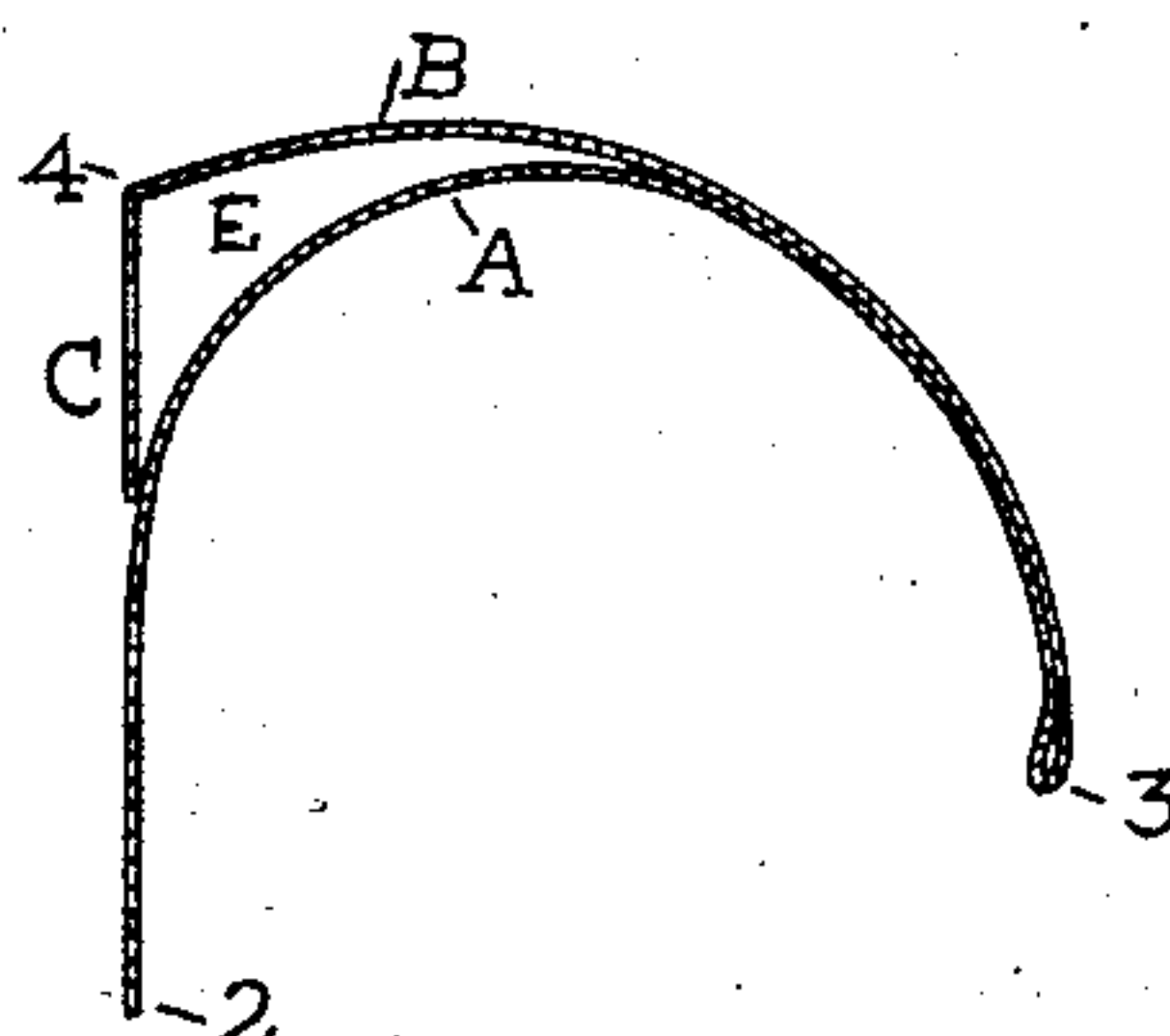


Fig. 4

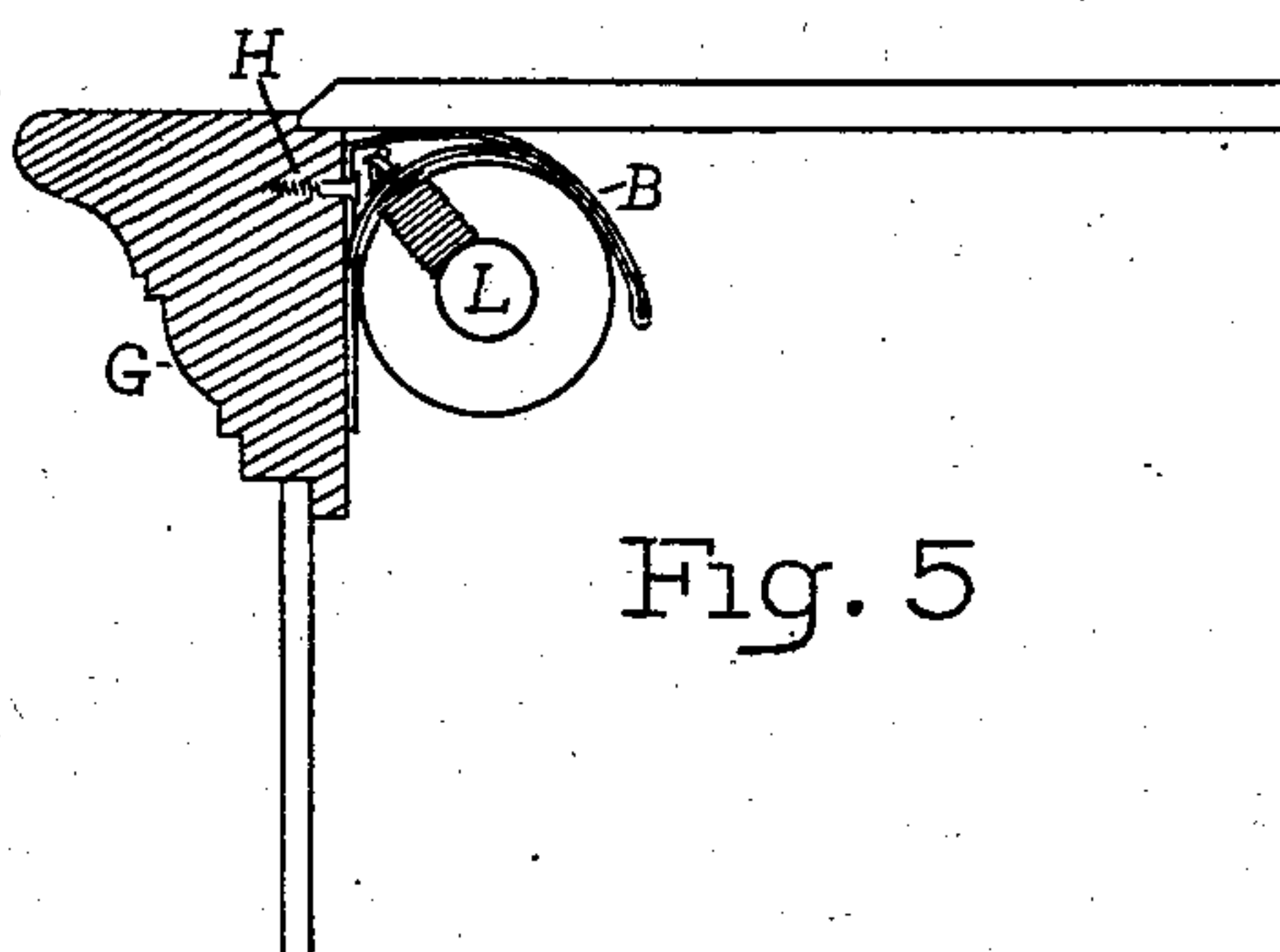


Fig. 5

WITNESSES:

Mary S. Tooker
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INVENTOR.

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His ATTORNEY.

UNITED STATES PATENT OFFICE.

RAYMOND MANCHA, OF GRAND RAPIDS, MICHIGAN.

ILLUMINATING DEVICE.

SPECIFICATION forming part of Letters Patent No. 726,081, dated April 21, 1903.

Application filed January 5, 1903. Serial No. 137,974. (No model.)

To all whom it may concern:

Be it known that I, RAYMOND MANCHA, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented new and useful Improvements in Illuminating Devices, of which the following is a specification.

This invention relates to a new and useful illuminating device for illuminating show-cases and other analogous purposes.

The invention consists in combining with a lamp or lamps of a metallic receptacle constructed in one piece of sheet metal bent or stamped into such form as to form the concave reflector and an open space or channel for the electric wires that furnish the current to the lamps situated within the concave portion of the reflector, also in the means for attaching the illuminating device to a show-case.

The objects of my invention are, first, to furnish a cheap and efficient reflector for show-cases and analogous purposes; second, to increase the rigidity and durability of the reflector by bending the metal back on itself so as to obviate the necessity of rolling the marginal edge; third, to utilize the sheet of metal which forms the reflector for the purpose of forming the channel or space for the electric wires; fourth, to furnish cheap and efficient means for attaching the illuminator to the interior of a show-case. These objects I accomplish by means of the mechanism illustrated in the accompanying drawings, in which—

Figure 1 shows a front view of the reflector. Fig. 2 shows a rear elevation of the sheet of metal bent into form for retaining the lamps in position and to produce a reflector. Fig. 3 is an end view with a lamp in place. Fig. 4 is also an end view with the lamp removed. Fig. 5 shows an end view of my illuminating device placed in the upper corner of a show-case.

Similar characters refer to similar parts throughout the several views.

For the purpose of the description I refer to the concave side of the reflector as the front, the convex side of that portion of the sheet of metal which forms the shell as the rear, and the straight upper portion of the shell as the top, the position being shown in

Fig. 5, the lamps being in the front or concave portion of the reflector.

A represents the reflector proper, which is a concave front for the reception of the lamps L. The reflector is curved to receive the lamps from the point 2 to the point 3, as shown in Figs. 3 and 4. At the point 3 the sheet is bent upon itself, following in close proximity to the point A for a distance, but gradually extending away therefrom until it reaches the point 4, thus leaving the space E for the electric wires. From the point 4 the sheet is bent at an angle and projects forwardly, forming the flap C, which rests upon the convex surface of the reflector A.

F represents the wires which convey the electricity to the lamps L.

G represents the casing of the show-case, which is provided with a screw H, which projects beyond the surface and engages with the opening I.

I represents slots cut in the part C, which are adapted to engage with the screws H in the case. I prefer to place one of these slots at either end of the flap C, but more may be used.

In applying this device when constructed as above described the same may be placed in the corner of the show-case, causing the heads of the screws or pins H to engage with the slots I, which will rigidly support the illuminator and which allows for the rigid and quick removal of the same.

By the construction of the shell and reflector in one piece I am enabled to make a very rigid reflector and case which cannot get out of order nor readily out of shape and which can be quickly and readily applied to a show-case. If it is deemed advisable for the purpose of giving greater stability to the shell and reflector, the flap C may be soldered to the convex surface of the reflector A.

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

1. An illuminating device consisting of a single sheet of suitable material comprising an upwardly-extending vertical portion terminating in a forwardly-projecting curvilinear portion which terminates in a rearwardly-extending segmental portion, the latter terminating in a downwardly-depending vertical

portion in alinement with the upwardly-extending vertical portion, said upwardly-extending vertical and forwardly-projecting curvilinear portions forming a reflector and
5 said curvilinear, segmental and depending vertical portions forming a channel for leading-in wires, and an illuminating means arranged within said curvilinear portion and connected to the leading-in wires.

10 2. An illuminating device consisting of a single sheet of suitable material comprising an upwardly-extending vertical portion terminating in a forwardly-projecting curvilinear portion which terminates in a rearwardly-
15 extending segmental portion, the latter terminating in a downwardly-depending vertical portion in alinement with the upwardly-extending vertical portion, said upwardly-ex-

tending vertical and forwardly-projecting curvilinear portions forming a reflector and 20 said curvilinear, segmental and depending vertical portions forming a channel for leading-in wires, the forward end of such curvilinear and segmental portions provided with openings and the said depending vertical por- 25 tions provided with slots, and an illuminating means arranged within said curvilinear portion and connected to the leading-in wires.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses. 30

RAYMOND MANCHA.

Witnesses:

CHARLES M. WILSON,
EDWARD TAGGART.