

No. 864,415.

PATENTED AUG. 27, 1907.

E. C. EVERETT.

LANTERN.

APPLICATION FILED MAR. 23, 1907.

Fig. 1.

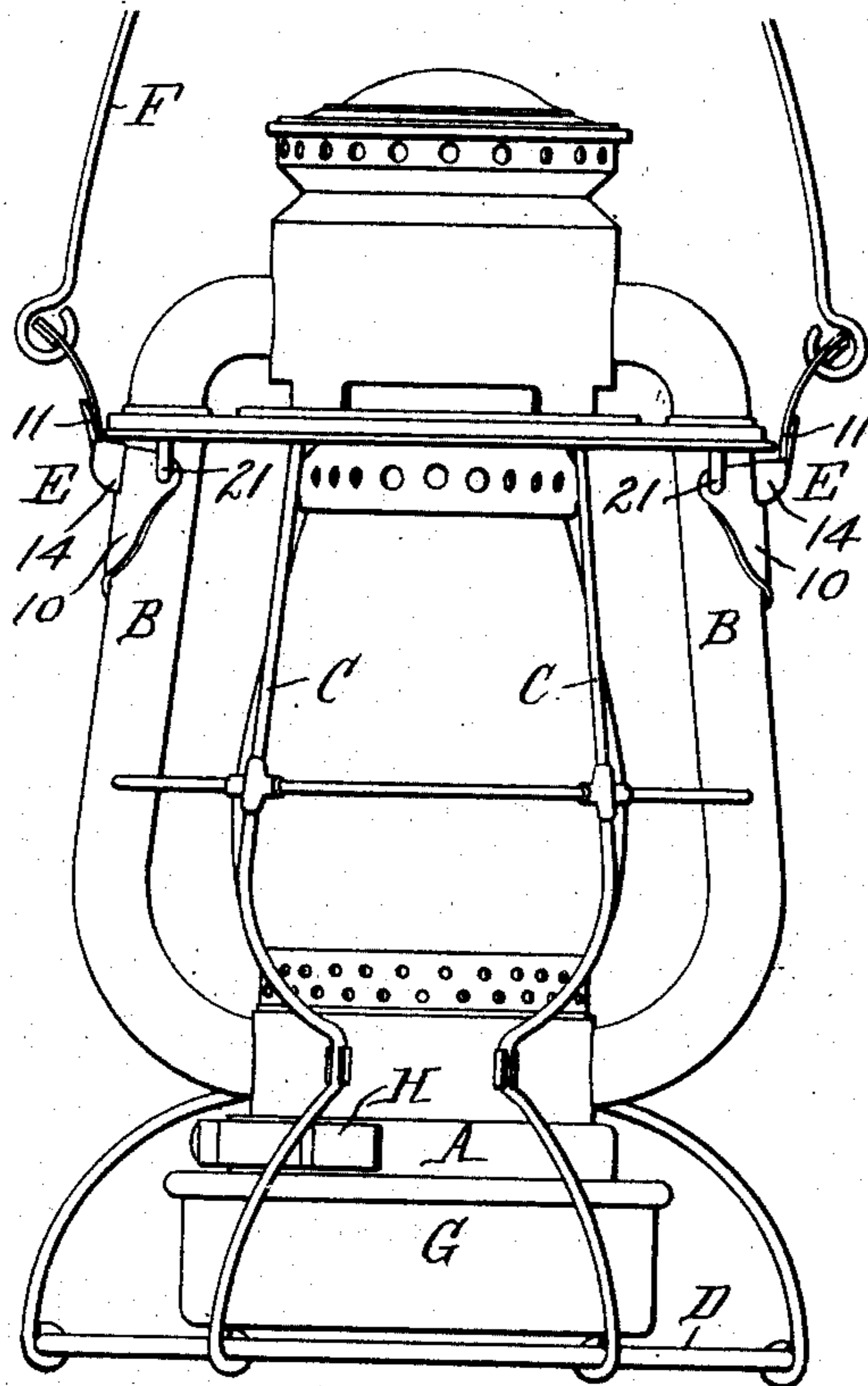


Fig. 3.

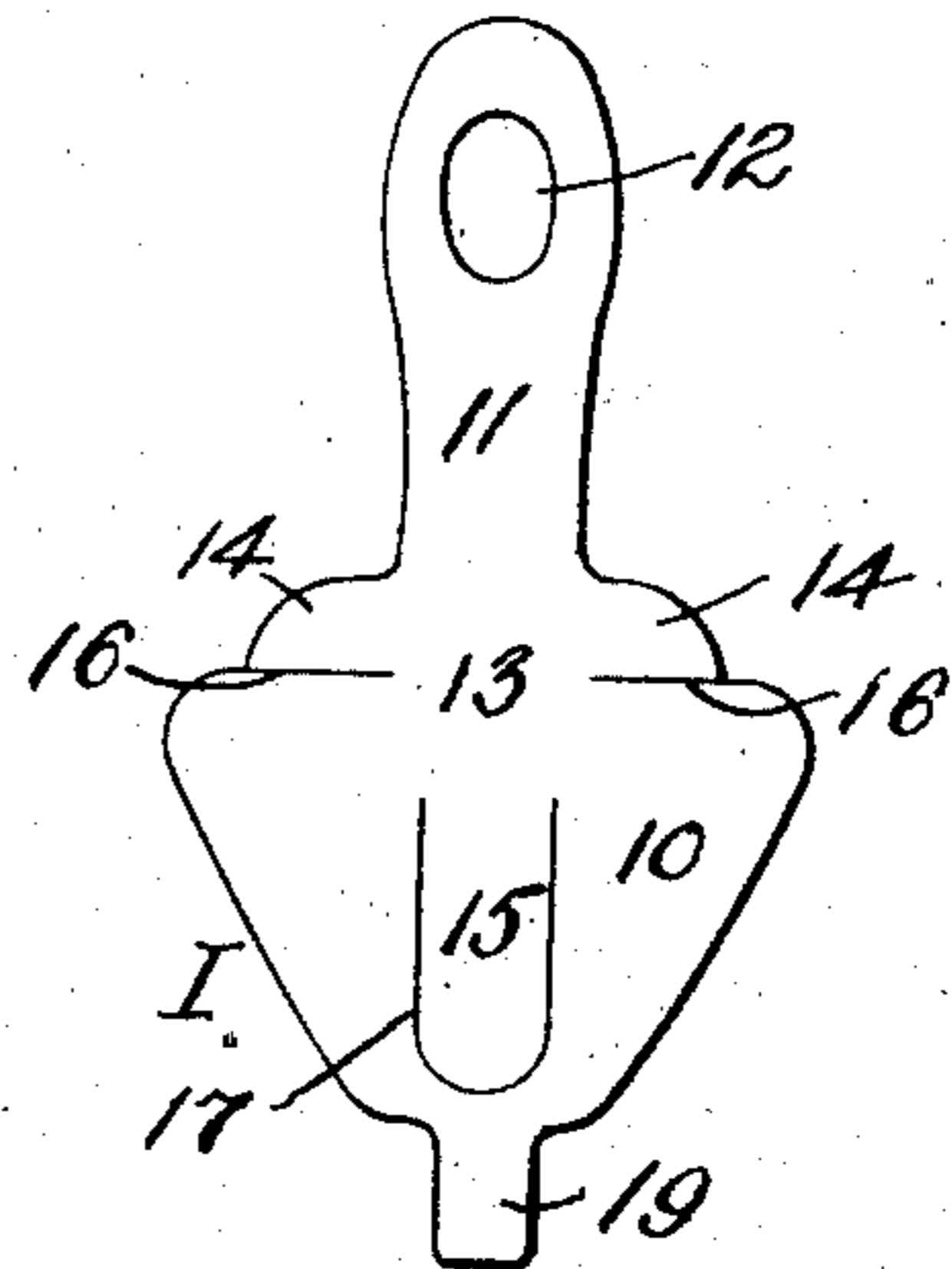


Fig. 4.

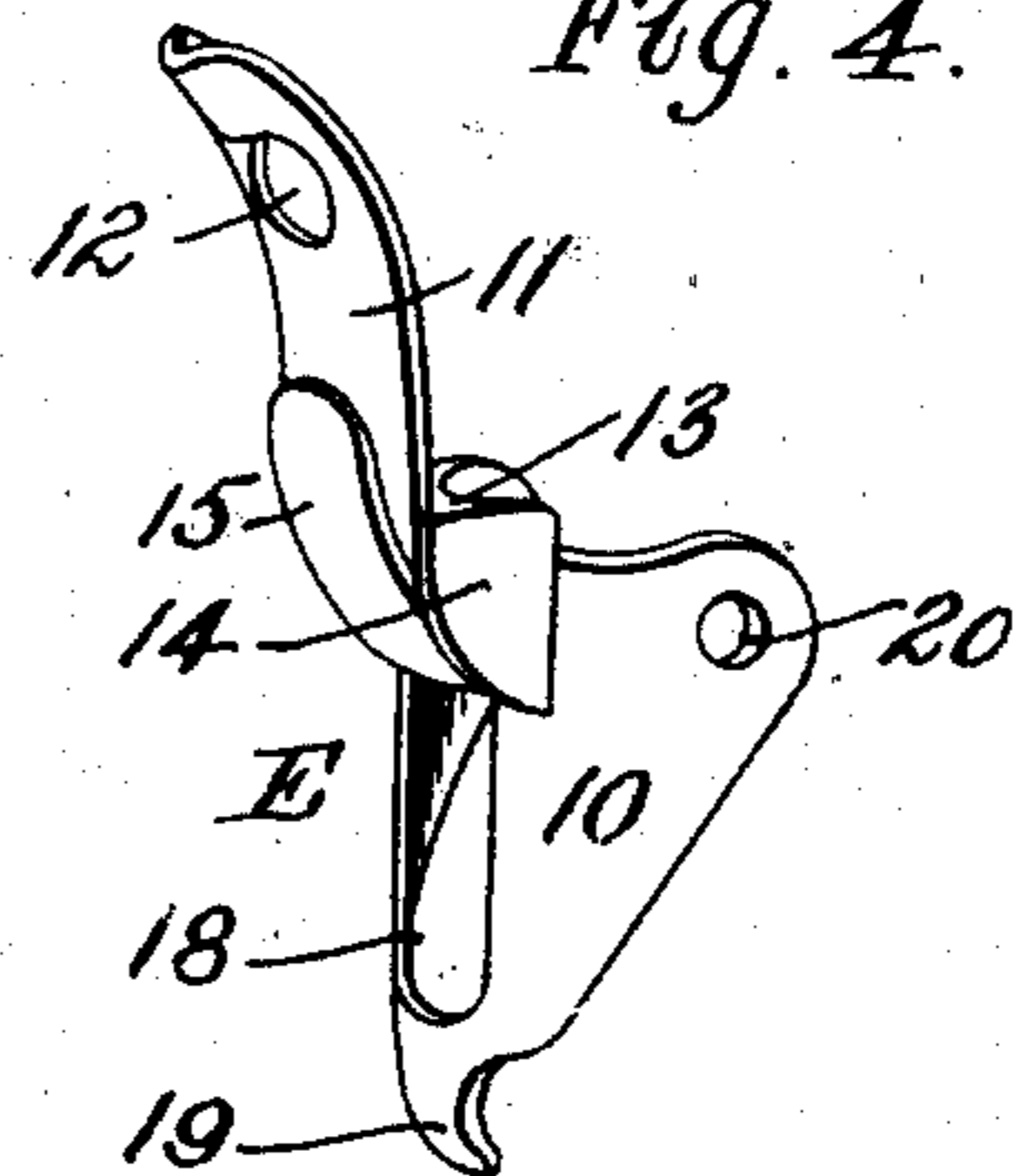


Fig. 2.

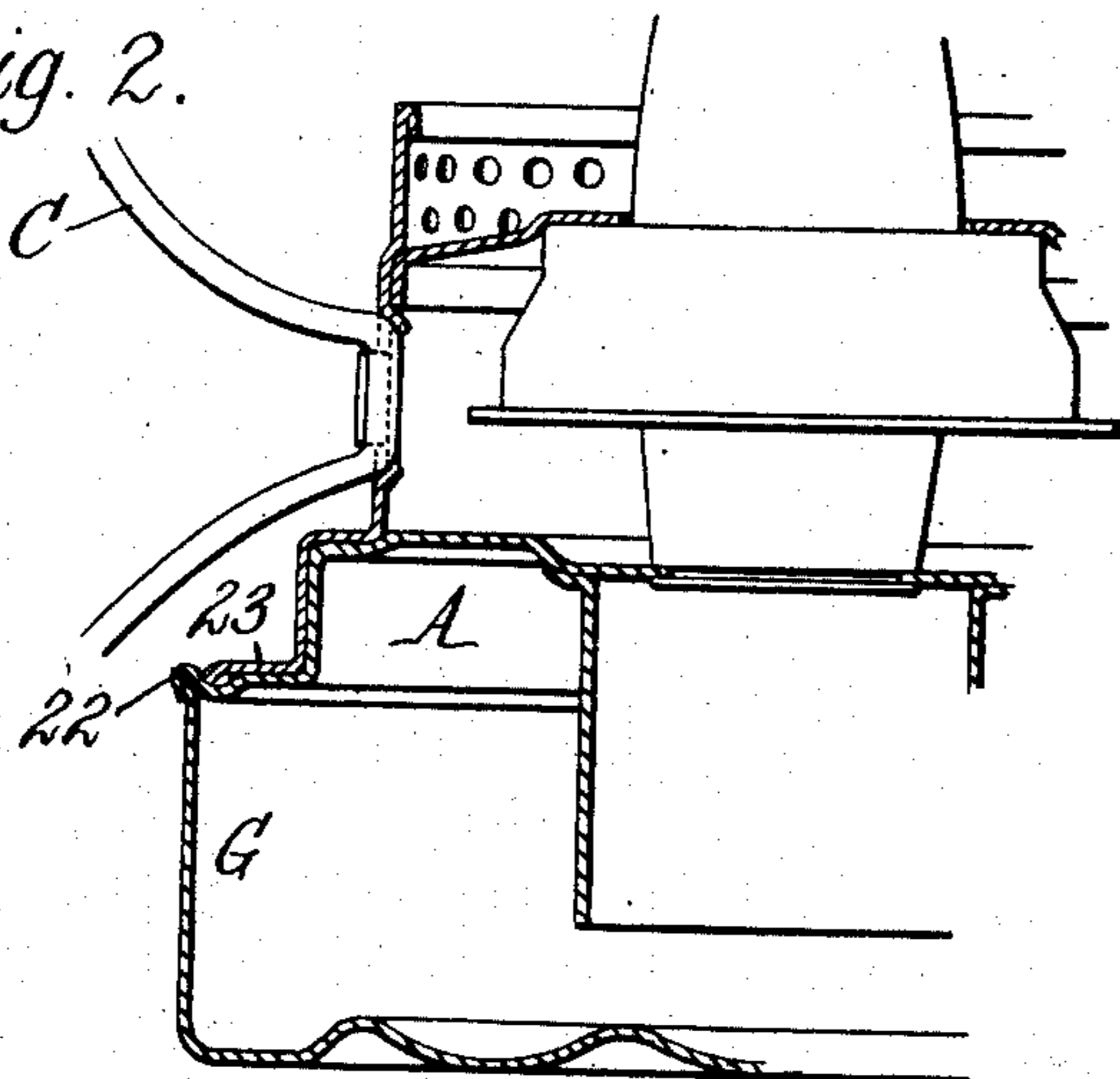
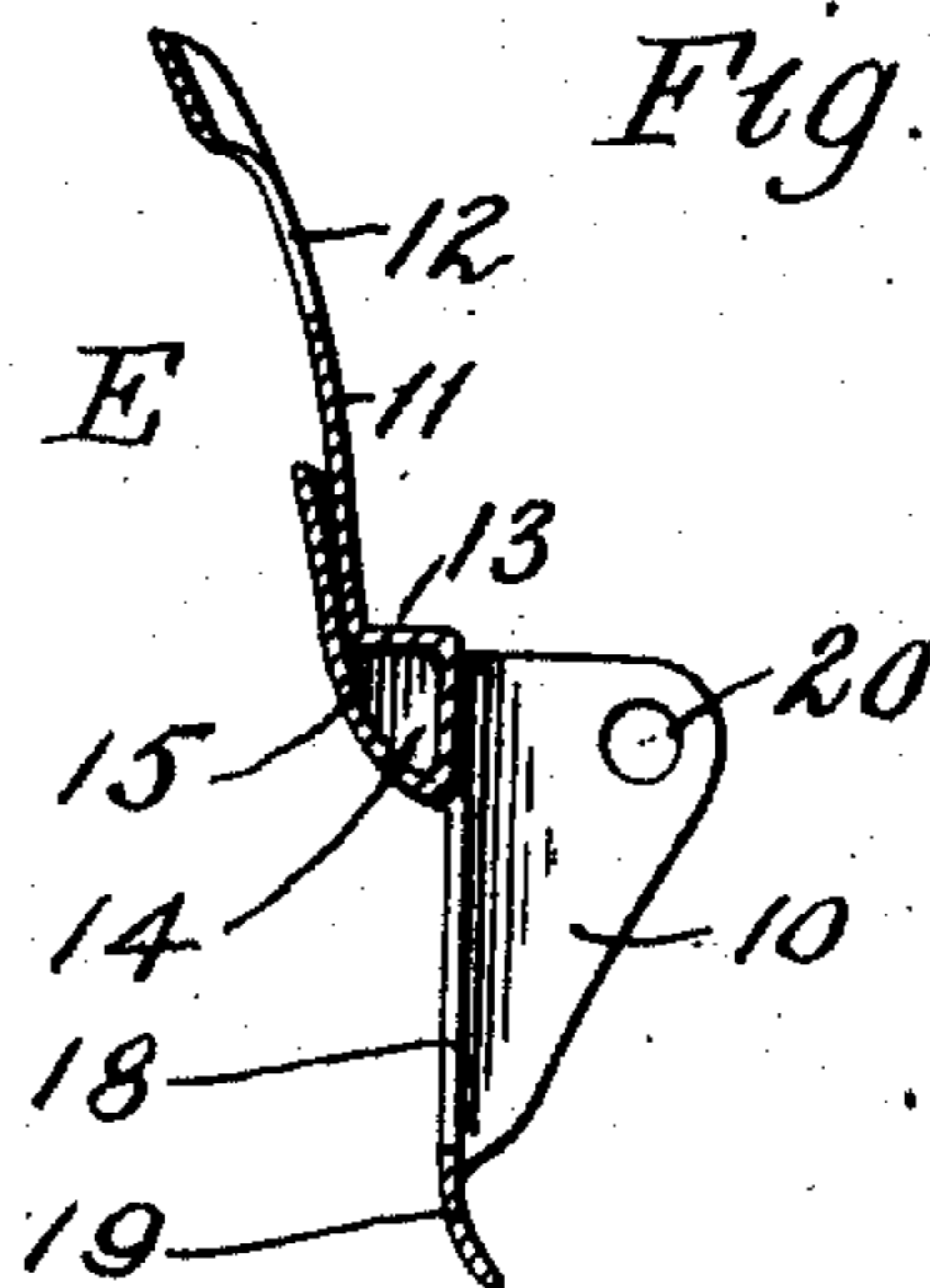


Fig. 5.



Witnesses:

A. P. Diamond.

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Inventor:

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# UNITED STATES PATENT OFFICE.

ERNEST C. EVERETT, OF NEW YORK, N. Y., ASSIGNOR TO R. E. DIETZ COMPANY,  
OF NEW YORK, N. Y.

## LANTERN.

No. 864,415.

Specification of Letters Patent.

Patented Aug. 27, 1907.

Application filed March 23, 1907. Serial No. 364,046.

*To all whom it may concern:*

Be it known that I, ERNEST C. EVERETT, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented a new and useful Improvement in Lanterns, of which the following is a specification.

This invention relates to that class of lanterns in which the bail ears are made separate from the lantern frame, and has for its object to construct the bail ears in such manner that they are strong and rigid and at the same time simple and inexpensive.

In the accompanying drawings: Figure 1 is an elevation of a lantern provided with my improvements. Fig. 2 is a fragmentary sectional elevation of the lantern body and oil pot. Fig. 3 is an elevation of the sheet metal blank for forming one of the bail ears. Fig. 4 is a perspective view of the finished bail ear. Fig. 5 is a vertical section of the same.

Like letters and numerals of reference refer to like parts in the several figures.

A represents the body hoop or ring of a tubular railroad lantern, B the side tubes thereof, C the upright guard wires, D the bottom ring, E the bail ears, F the bail, G the oil pot, and H the spring by which the latter is secured in the body hoop.

The bail ears E are each constructed of a single blank I of sheet metal, shown in Fig. 3. Each ear comprises an attaching plate 10, which is curved to fit against the outer side of the side tube B, and an ear proper 11 which extends upwardly and outwardly from the attaching plate and is provided with an opening 12 for the reception of the bail. The ear proper 11 is connected with the attaching plate by a horizontal or off-set neck 13 which is stiffened and supported on the attaching plate by brackets 14 extending from the sides of the neck 13 downwardly on the outer side of the attaching plate. The ear proper 11 is further stiffened and supported by a brace 15 which extends from the attaching plate upwardly and bears with its upper portion against the outer side of the ear proper.

The brackets 14 are constructed by forming the sheet metal blank with slits 16 which extend from the side of the blank inwardly to the neck 13, bending the neck forwardly to offset the same from the attaching plate in an approximately horizontal position, and bending the brackets down at the ends of the neck so as to bear with their rear edges against the attaching plate.

The brace 15 is constructed by providing the blank

at the middle of the attaching plate with a U-shaped slit 17 of proper length and bending the lip so formed upwardly against the outer side of the ear proper 11. The bending up of this lip to form the brace 15 forms an opening 18 in the attaching plate below the brace. This opening lightens the attaching plate and the part of the metal which is so removed from the attaching plate is utilized for reinforcing the ear proper at its lower portion, where the ear proper is most exposed to shocks and strains which tend to bend or break the same.

The attaching plate may be provided at its lower end with a lip 19 which is inserted into a slot in the tube B, and the upper corners of the attaching plate may be provided with openings 20 for the reception of the ends 21 of the upper horizontal top wire of the guard.

When the bail ears have been applied to the lantern frame and the latter has been dipped in molten tin in the usual way, the brackets 14 are firmly secured to the attaching plate and the brace 15 is firmly secured to the ear proper 11.

The oil pot G is inserted into the body hoop A from below and secured therein by the locking spring H in the usual manner. The oil pot is provided at its top with a raised marginal rim 22 which projects upwardly from the top of the oil pot on the outer side of the horizontal bottom flange 23 of the body hoop. This marginal rim covers and protects the joint between the top of the oil pot and the lower edge of the body hoop and prevents air currents from blowing through this joint into the lantern and disturbing the flame, especially when the fit between the oil pot and the body hoop is not very close, which is sometimes the case in lanterns which have been roughly used.

I claim as my invention:

1. The combination of a lantern frame and a sheet-metal bail ear comprising an attaching plate, an ear proper, an offset neck connecting said plate and ear proper, and brackets formed integrally with said neck and bent to extend downwardly from the sides of the neck and bear against the attaching plate, substantially as set forth.

2. The combination of a lantern frame and a sheet-metal bail ear comprising an attaching plate, an ear proper, and a reinforcing brace which is formed integrally with said plate and bent up to extend from said plate to and bear against the ear proper, substantially as set forth.

3. The combination of a lantern frame and a sheet-metal bail ear comprising an attaching plate, an ear proper, an offset neck connecting said plate and ear proper, and a reinforcing brace which is formed integrally

with said plate and bent up to extend from said plate to and bear against the outer side of said ear proper, substantially as set forth.

4. The combination of a lantern frame and a sheet-  
5 metal bail ear comprising an attaching plate, an ear proper, an offset neck connecting said plate and ear proper, brackets formed integrally with said neck and bent to extend downwardly from the sides of the neck and bear against the attaching plate, and a reinforcing brace

formed integrally with said plate and bent up to bear 10 against the outer side of said ear proper, substantially as set forth.

Witness my hand in the presence of two subscribing witnesses.

ERNEST C. EVERETT.

Witnesses:

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L. S. JENISON.