Feb. 7, 1928. 1,658,206

G. MATTHYSSEN

LIGHTING FIXTURE

Filed Oct. 22, 1925

Fig. 1.

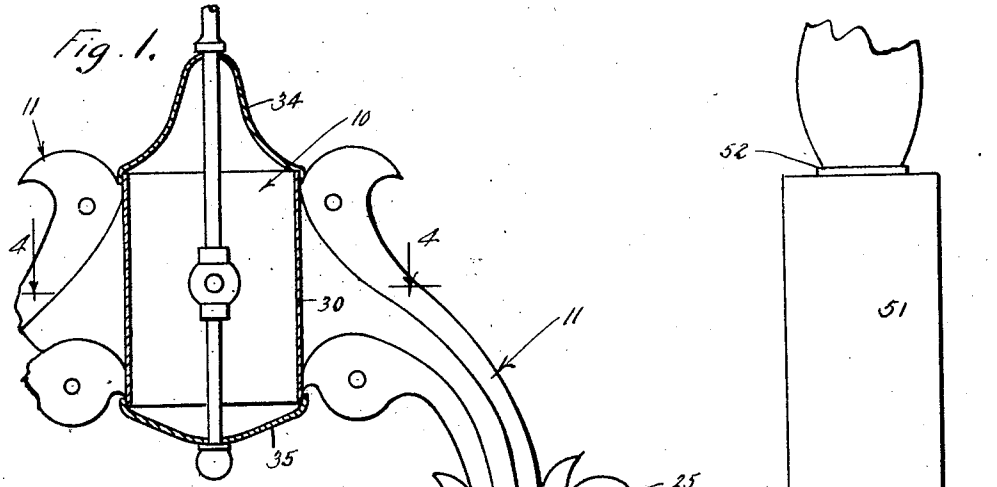


Fig. 2.

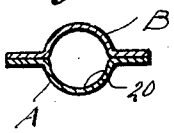


Fig. 3.

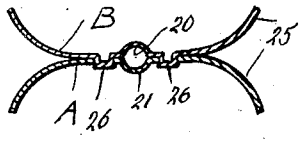


Fig. 4.

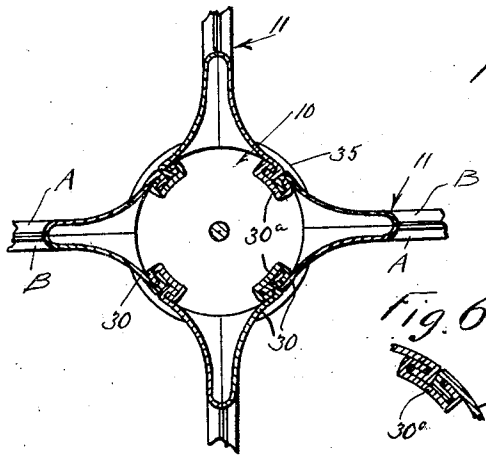


Fig. 5.

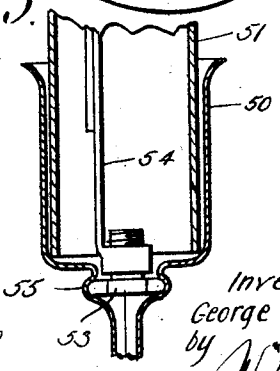


Fig. 6.

Inventor
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UNITED STATES PATENT OFFICE.

GEORGE MATTHYSSEN, OF INGLEWOOD, CALIFORNIA.

LIGHTING FIXTURE.

Application filed October 22, 1925. Serial No. 64,133.

This invention has to do with lighting fixtures and the like, and, it is an object of the invention to provide a simple, effective, improved construction for articles of this character.

Lighting fixtures are commonly built up of pipes, brackets, flanges, ornamentations, etc. screwed, soldered, or otherwise secured together. These various parts require more or less finished work in preparation for assembling, and the assembling requires hand work and is therefore expensive.

An object of this invention is to provide a fixture construction which eliminates many of the separate parts and operations ordinarily required in the manufacture of lighting fixtures.

Another object of my invention is to provide a construction of the character mentioned which is simple and inexpensive of manufacture.

A further object of my invention is to provide a construction of the character specified whereby a very wide variety of ornamental designs can be effectively and economically carried out.

A further object of the present invention is to provide a construction applicable to different types and styles of lighting fixtures.

The objects and features of my invention will be best and more fully understood from consideration of the following detailed description of a typical form and application thereof throughout which description reference is had to the accompanying drawings, in which:

Fig. 1 is a sectional view of a fixture embodying the construction provided by this invention.

Fig. 2 is an enlarged detail transverse sectional view taken as indicated by line 2—2 on Fig. 1.

Fig. 3 is a sectional view taken as indicated by line 3—3 on Fig. 1.

Fig. 4 is a sectional view taken as indicated by line 4—4 on Fig. 1.

Fig. 5 is a detailed sectional view taken as indicated by line 5—5 on Fig. 1, and

Fig. 6 is an enlarged view of a portion of Fig. 4.

The construction provided by this invention can be carried out in or as applied to lighting fixtures of various types and designs, it being particularly applicable to wall fixtures and to fixtures of the type illustrated in the drawings. In the drawings I have chosen to disclose only a typical and simple application or embodiment of the invention believing that this will facilitate a clear and accurate understanding of my invention.

The particular fixture illustrated in the drawings includes, generally, a central hub or body 10 from which a plurality of arms or brackets 11 project. In this particular case the several brackets are of the same design and construction and are arranged symmetrically around the body in the manner usual to this type of fixture.

In accordance with my invention each bracket includes two sheet metal sections A and B; these sections are alike in configuration so that they register or coincide when arranged together as shown in the drawings. The exact shape and proportioning of the sections will, in practice, vary with and be dependent upon the particular design of the fixture. In the case shown in the drawings the sections are in the form of comparatively long strips and are curved to extend outwardly and downwardly from the body 10 and then outwardly and upwardly at their lower or outer end portions. The sections are provided in their adjoining faces with semi-circular depressions 20. The depressions 20 are located in the sections A and B so that they register to form a round opening in, or through, the bracket suitable for carrying wires. The depressions 20 cause projections or ribs 21 to occur on the outer surfaces of the sections as shown in the drawings. In the case of a bracket of the general type shown in the drawings the depressions are formed longitudinally of the sections so that there is an opening extending through the bracket from end to end. The ribs or projections occuring on the outer parts of the sections add to the appearance of the fixture and are particularly effective in strengthening and adding rigidity to the entire bracket. The edge portions of the sections A and B may be extended at suitable points to form ornamental ears 25. In the

particular design shown in the drawings the two sections are provided with ears at corresponding parts and the ears are spread or turned outwardly as clearly illustrated in Fig. 3 of the drawings. This particular detail of construction is set forth as an example of the manner in which ornamentation may be carried out in the entire construction.

In accordance with my invention the two sections A and B are secured or connected together in the proper register or relationship. Various means may be employed for securing the sections together, for instance, one of the sections can be provided at suitable points with projections 26 which fit tightly into openings at corresponding points in the other section. The projections may extend through the openings and be headed over as shown in the drawings.

In the form of construction shown in the drawings the body 10 from which the brackets extend is formed by upper and lower end plates 34 and 35 and flanges 30 on the inner ends of the brackets. The flanges 30 are preferably formed by turning or suitably shaping the end portion of the bracket sections A and B. The flanges are slightly curved and those of adjacent brackets are connected by connecting plates 30^a; the plates 30^a are formed with channels which slidably receive the turned edge portions of the flanges as shown in Fig. 6 of the drawings. The end plates 34 and 35 are cup-shaped and are applied to or over the ends of the flanges to hold the flanges and connecting plates. The end plates may be secured together by a central tie member 40.

The outer end portion of each bracket may be shaped and proportioned to carry out any desired design and to carry any suitable electrical apparatus, for instance, a globe carrying socket, or the like. In the particular case shown in the drawings, the sections A and B of the bracket are provided at their outer ends with semi-circular parts 50 of comparatively large radius which fit together to form a cup or holder for a suitable electric unit. The particular holder shown in the drawings is intended to carry an imitation candle 51 in which is mounted a globe carrying socket 52. In this type of construction is is desirable that the socket 52 be supported directly from the bracket 11 so therefore a fitting 53 is held between the sections at the inner end or base of the holder 50, and is formed, for instance, threaded to carry a socket mounting 54. The socket 54, imitation candle 51, and socket 52 may be of standard construction. The fitting 53 may be held in proper place by suitably formed parts 55 in the two sections A and B engaging a polygonal part of the fitting.

In the manufacture of the fixture the sections A and B are punched, or otherwise formed, from sheet metal by very simple and inexpensive operations and the completed bracket is formed by simply securing the two sections together; the sections can be secured together by a single operation which forces the projections on one section through the openings in the other section and heads the projections over as shown in the drawings. If several brackets are to be employed in a single fixture they may be very easily and quickly connected in the manner hereinabove described. If the brackets are to be used as independent fixtures the flanges 30 may be employed as mounting means, or, suitable mounting plates can be added. When the brackets have been completed by securing the two sections together and the fixture has been completed by assembling the brackets the necessary wires can be very easily passed through the openings in the brackets and the electrical fittings can be applied the same as in the case of an ordinary fixture. It is to be noted that my improved construction allows for the carrying out of many and varied designs and that the construction is particularly simple, effective and inexpensive. The invention eliminates several parts ordinarily found in fixtures of this character and the several operations ordinarily necessary in assembling or connecting together these parts. It is to be noted that no screw or solder connections are necessary. It will be apparent and understood that the details of shape and design may be varied widely as desired and that various materials and finishes may be employed the same as in ordinary fixture manufacture.

Having described only a typical preferred form of my invention I do not wish to limit myself to the specific details set forth, but wish to reserve to myself any changes or variations that may appear to those skilled in the art or fall within the scope of the following claims.

Having described my invention, I claim:

1. A lighting fixture bracket formed of two sheet metal sections secured together, and ears projecting from the edge portions of the sections, the ears of the two sections being spread apart and forming ornamentations on the bracket.

2. A lighting fixture including a plurality of brackets each formed of two sheet metal sections with flanges at their inner ends, and means connecting the inner ends of the brackets including members connecting adjoining flanges and end plates holding the ends of the flanges.

3. A lighting fixture including a plurality of arms, parts at the inner ends of the arms to be arranged in abutting relation to form a central body for the fixture, and means releasably holding the parts in said position.

4. A lighting fixture including a plurality of arms, projecting parts at the inner ends of the arms to be arranged together edge to edge to form a central body for the fixture, connecting members joining the abutting edges of said parts, and clamp plates at the ends of said parts for releasably holding the brackets and connecting members.

In witness that I claim the foregoing I have hereunto subscribed my name this 17th day of October, 1925.

GEORGE MATTHYSSEN.