Jan. 21, 1930. M. HESSEL 1,744,383

RESILIENT CLAMP SOCKET FOR ELECTRIC LAMPS IN SERIES

Filed Aug. 17, 1928

Fig. 1.

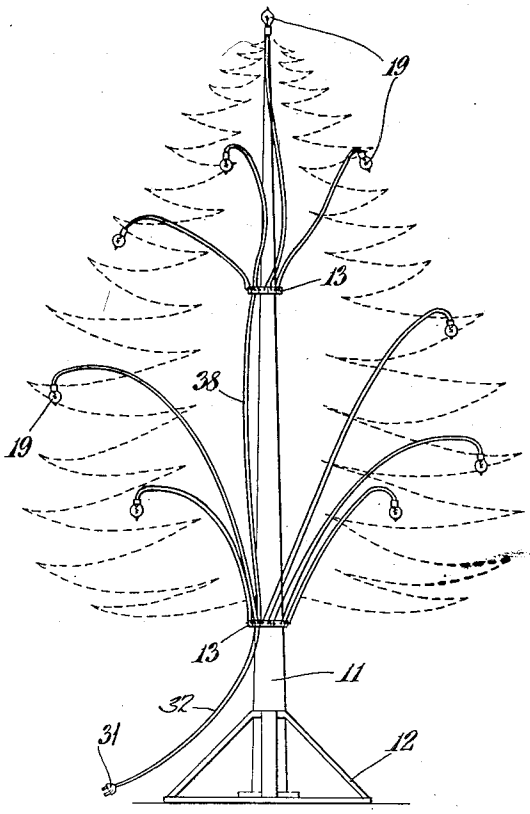


Fig. 2.

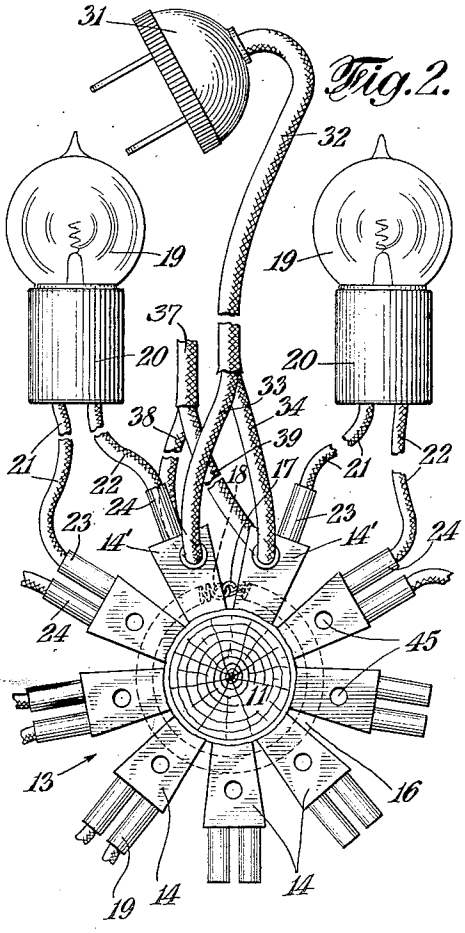


Fig. 3.

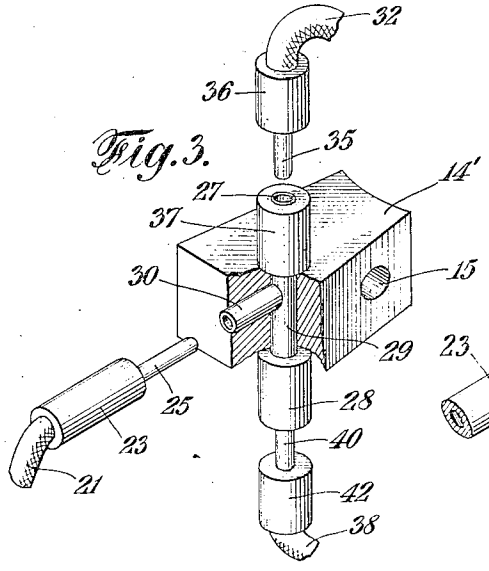
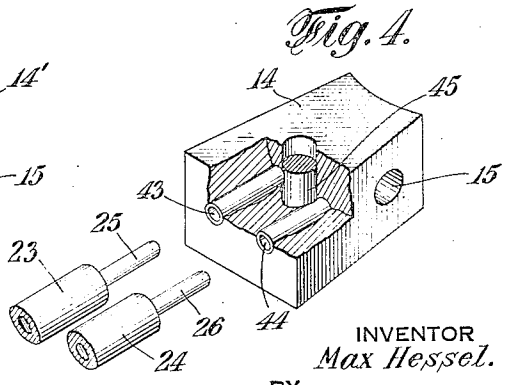


Fig. 4.



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UNITED STATES PATENT OFFICE

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RESILIENT CLAMP SOCKET FOR ELECTRIC LAMPS IN SERIES

Application filed August 17, 1928. Serial No. 300,265.

This invention relates to devices for supporting conducting sockets for electric lamp terminals and more particularly to a plurality of such sockets arranged in series, as used in connection with Christmas tree ornaments and similar ornamental installations.

The inconvenience attendant upon making suitable, safe and easy installations of this character is well known and, in addition to the fire hazard incurred, has been a strong deterrent factor in the use of electric displays for such purposes.

It is therefore an object of the present invention to provide a simple, safe and effective form of socket carrying support, and readily capable of being applied by any person without previous experience.

A further feature is in the provision of a device suited to carry a plurality of terminal sockets whereby a considerable number of lamps can be arranged in series and disposed at various points as may be desired.

Another purpose is to produce a device having a self-adjusting spring clamp suited to engage varying sizes of supports, as for instance the trunk or limb of a tree, without mutilation, no tools or appliances of any kind being required.

These several important features, in addition to economy, simplicity, safety and low cost, are attained by the novel and practical construction and arrangement of parts, as hereinafter described and illustrated in the accompanying drawing, constituting a material part of this disclosure, and in which:—

Figure 1 is a front elevational view of a conventional type of Christmas tree showing two of the devices engaged.

Figure 2 is a plan view of the device showing the method of making connections.

Figure 3 is a perspective view of one of the terminal blocks, partially broken away and showing its connections.

Figure 4 is a similar view showing one of the intermediate blocks.

Referring in greater detail to the accompanying drawing, the numeral 11 designates the trunk of a tree, mounted in a suitable stand 12. Placed in desired positions around the tree are the fixtures, which taken as a whole are designated by the numeral 13. These fixtures are composed of a series of non-conducting segmental blocks 14 and 15, the latter being at the ends of the series.

Each of the segmental non-conducting blocks 14 is provided with a hole 15, extending through from side to side within the narrow portion and are strung on a helically coiled spring 16, the ends of which are fastened by means of a hook 17 and eye 18. In this way they are looped around the trunk or other portion of a tree or like support 11, and hooked in adjusted position, to be tensionally held by the spring 16.

The lamps 19 used in connection with the fixtures are provided with sockets 20, having conductors 21 and 22 ending in terminals 23 and 24, equipped with plugs 25 and 26.

The end blocks 14′ in the fixtures are provided at one side with sockets 27, a similar socket 28 being on the opposite side, these sockets being connected by a conductor 29, from which extends a conducting socket 30 receptive of one of the terminal plugs of the lamp.

Power is delivered from a plug 31 through a cord 32 having branches 33 and 34 provided with terminal plugs 35, engaged in sockets 27, these members being provided with non-conducting sleeves 36.

Another conductor 37 is provided with branches 38 and 39, having plugs 40 and 41 at each end and provided with non-conducting sleeves 42, which are engageable in the lower socket 28 to conduct current to another similar fixture.

Each of the intermediate blocks 14 are provided with conductive sockets 43 and 44 receptive of the lamp terminal plugs 25 and 26, the sockets 43 and 44 being connected in the circuit by plugs 45 set in each of the blocks 14.

As changes of construction could be made within the scope of the invention, it is intended that all matter contained in the foregoing description or shown in the accompanying drawing shall be interpreted as illustrative and not in a limiting sense.

Having thus described the invention, what

is claimed as new and desired to secure by Letters Patent, is:—

1. A multiple electric light fixture comprising, in combination with a support, and a plurality of electric lamps having conductors provided with terminals, of a series of dielectric segmental blocks arranged in a circle around said support, said blocks having transverse openings in their inner portions, a resilient element passing through the opening to secure the blocks on the support, paired sockets fixed in the outer portions of said blocks to receive the lamp conductor terminals, and conductors between the first and last socket and a supply of electrical energy.

2. A multiple electric light fixture comprising, in combination with a support, an electric circuit and a plurality of lamps having conductors provided with terminal plugs, of a series of non-conducting blocks encircling said support, an elastic band confining said blocks thereagainst, said band being detachably engaged, a pair of plug receiving sockets in each block, said sockets being connected in series, and connections to the end blocks from the electric circuit.

3. A multiple electric light fixture comprising, in combination with a support and an electric circuit, of a row of sockets encircling said support, a spring constraining the sockets around the support, connections between said circuit and end sockets, and a series of lamps having connections with the intermediate sockets whereby the lamps are connected in series.

In testimony whereof I affix my signature.

MAX HESSEL.