

F. STORSBERG.
ELECTRIC LIGHT FITTING.
APPLICATION FILED FEB. 15, 1911.

1,008,086.

Patented Nov. 7, 1911.

2 SHEETS—SHEET 1.

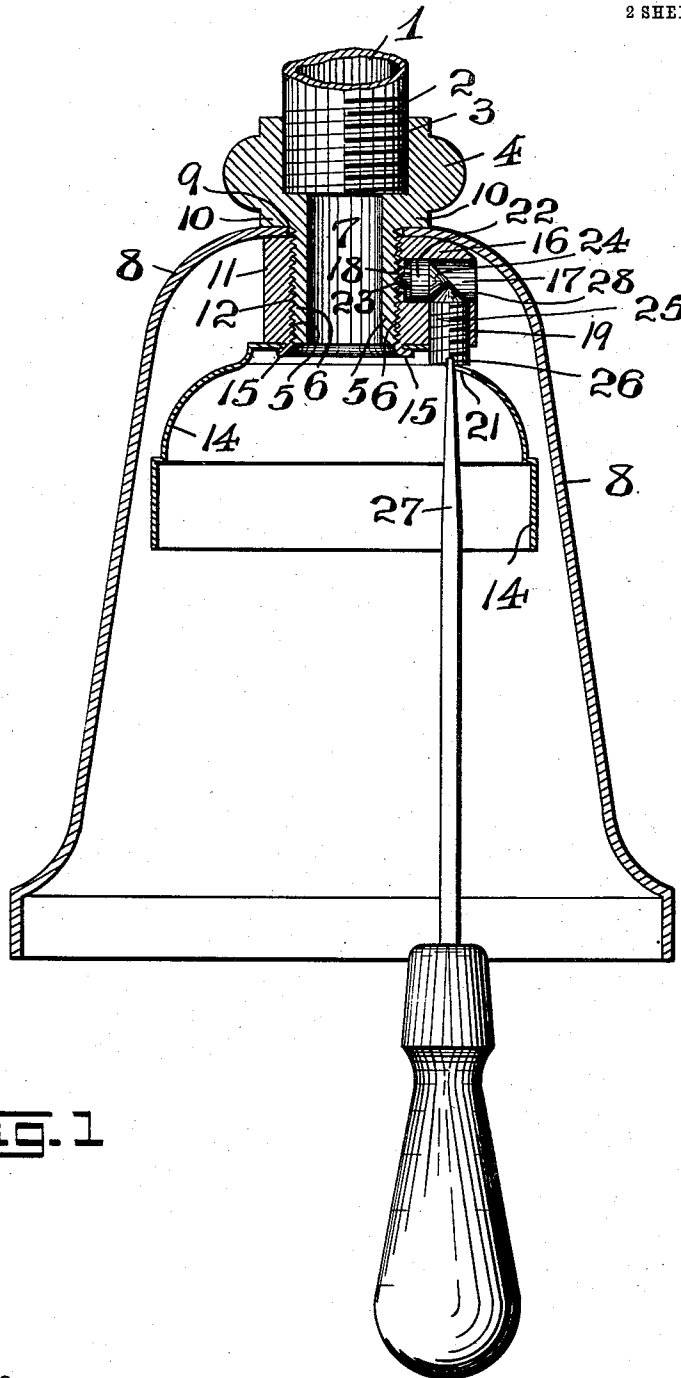


FIG. 1

WITNESSES:
Harry C. Pfeiffer
Fred W. W. Chausse

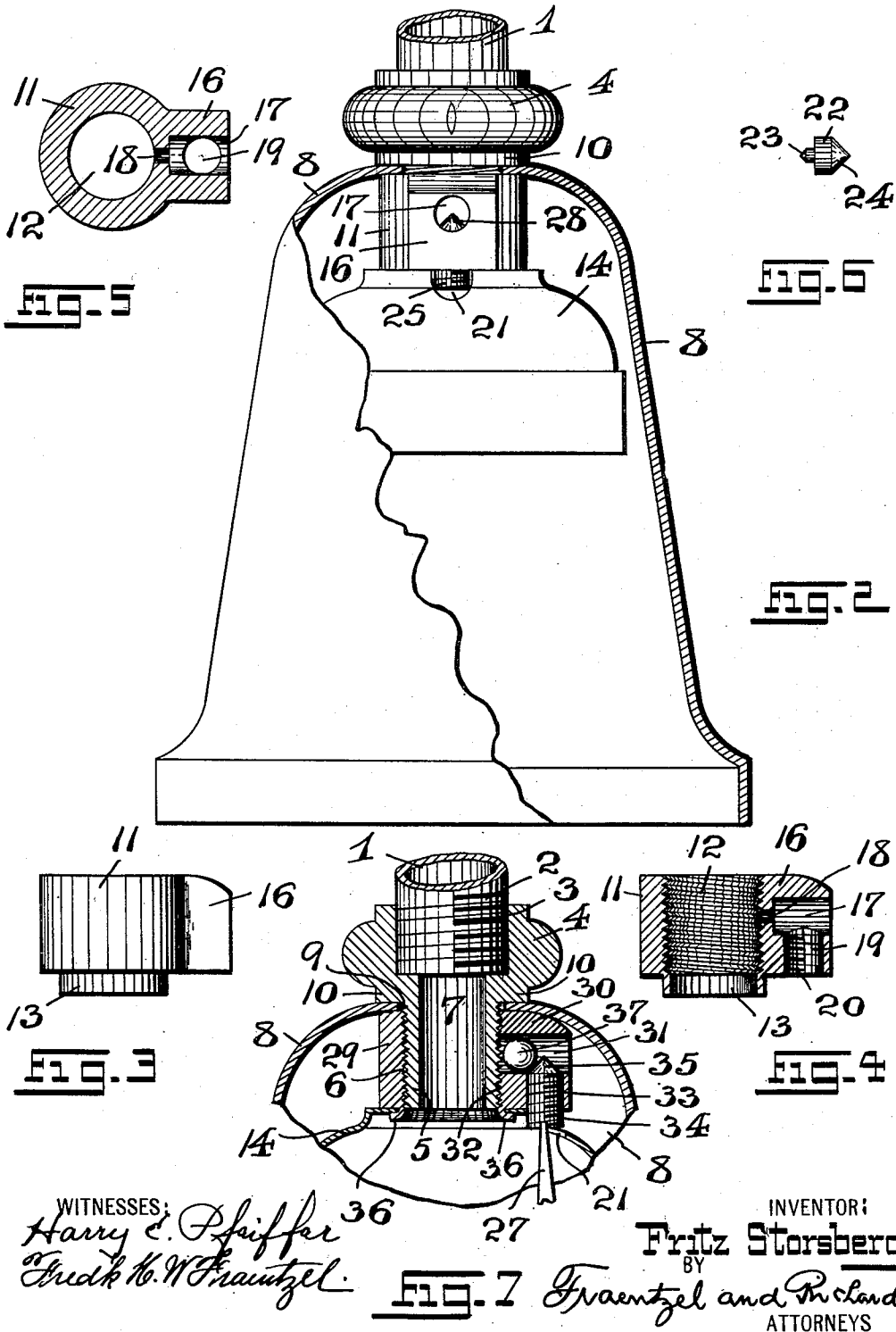
INVENTOR:
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BY
Fraentzel and Richards,
ATTORNEYS

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WITNESSES:
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UNITED STATES PATENT OFFICE.

FRITZ STORSBERG, OF NEWARK, NEW JERSEY.

ELECTRIC-LIGHT FITTING.

1,008,086.

Specification of Letters Patent.

Patented Nov. 7, 1911.

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To all whom it may concern:

Be it known that I, FRITZ STORSBERG, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Electric-Light Fittings; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to characters of reference marked thereon, which form a part of this specification.

The present invention has reference, generally, to improvements in fittings for electric lamps; and, this invention refers, more particularly, to a novel means for assembling and securing together in proper relation with each other, the lamp-socket, the socket-cover or husk, and the nipple connecting the same with the wiring-tube or nozzle.

The invention has for its principal object to provide a simple, neat, and strong fastening means for the purposes above described, which can be easily and quickly manipulated, when assembling or dismantling the parts; and, in which, furthermore, there is little likelihood of the parts being loosened from their holding or retaining relation, when once the same have been fixed or locked in their holding or retaining relation.

Other objects of the present invention, not at this time more particularly enumerated, will be clearly understood from the following detailed description of the present invention.

With the various objects of the present invention in view, the said invention consists, primarily, in the novel electric lamp fixture hereinafter set forth; and, furthermore, the invention consists in the novel arrangements and combinations of the various parts of the fixture, as well as in the details of the construction thereof, all of which will be hereinafter more fully described, and then finally embodied in the clauses of the claims which are appended to and which form an essential part of this specification.

The invention is clearly illustrated in the accompanying drawings, in which:—

Figure 1 is a vertical longitudinal section of a novel construction of electric lamp fixture embodying the principles of the pres-

ent invention, a screw-driver being shown in its operative relation with the novel fastening means, to illustrate one manner of manipulating said fastening means, in either assembling or dismantling the various parts of the electric lamp fixture. Fig. 2 is an end elevation of said fastening means in its assembled relation with the various parts of said electric lamp fixture, a portion of the socket-cover or husk being shown broken away, to render the same visible. Fig. 3 is a side view of said novel fastening means removed; Fig. 4 is a vertical cross-section of the same; and Fig. 5 is a horizontal cross-section of the said fastening means. Fig. 6 is a side elevation of a wedge-pin used in connection with said fastening means. Fig. 7 is a detail vertical longitudinal section of the novel construction of electric lamp fixture illustrating in connection therewith a slightly modified construction of fastening means for retaining the several parts in their assembled relation.

Similar characters of reference are employed in all of the above described views, to indicate corresponding parts.

Referring now to the several figures of the drawings, the reference-character 1 indicates the end of any desirable form or construction of wiring tube or nozzle, the same being provided with the usual external screw-threaded part 2, by means of which there may be attached to said wiring tube or nozzle 1, the socketed end 3 of a suitable nipple 4. The said nipple 4 is provided at its lower end with a reduced shank 5, which is also provided with an external screw-thread 6, said nipple 4 being further provided with a longitudinally extending hole or tubular portion, as 7, forming a wire-receiving passage therethrough.

The reference-character 8 indicates a suitable socket-cover or husk generally made in a bell-like form, the said socket-cover or husk being provided in its upper portion with a hole or opening 9, adapted to receive and permit the passage therethrough of the shank 5 of said nipple 4, so that the top of said socket-cover or husk 8 is brought up against the shoulder 10 formed upon said nipple 4, by the reduction of the diameter of said shank 5 thereof. The means for supporting the lamp-socket and securing the same and said socket-cover or husk in proper assembled relation to each other,

comprises the following fastening means. There is provided a collar 11 which is formed with an internally screw-threaded opening 12, by means of which the said collar 11 is screwed upon said shank 5 of the nipple 4. Said collar 11 is also provided upon its under side with an annular projection or bead 13 which is adapted to be inserted through the proper opening in the top-shell 14 of a lamp-socket and then crushed over so as to form a holding or retaining-bead 15 which securely suspends and supports said lamp-socket in its relation to the lower end of the collar 11 and within said socket-cover or husk 8. Said collar 11 is screwed up tightly upon said shank 5 of the nipple 4, so that the upper portion of said socket-cover or husk 8 is firmly held and secured between the upper end of said collar 11 and the shoulder 10 of the nipple 4. Said collar 11 is further provided with an extension or lug 16 which projects outwardly from one side thereof, the said extension or lug 16 being provided with an inwardly extending opening 17 at the inner end of which is a smaller opening, as 18, which communicates with the screw-threaded opening 12 of the said collar. Extending upwardly from the under side of said extension or lug 16 is a vertical opening 19, which communicates with said horizontal opening 17, said vertical opening 19 being provided with an internal screw-thread 20. The top-shell 14 of the lamp-socket is provided with an opening 21 which is arranged to register in position directly beneath the mouth of said vertical opening 19 of said extension or lug 16, as clearly illustrated. Slidably arranged within said horizontal opening 17 of the extension or lug 16 is a wedge-pin 22, which is provided upon its inner end with a preferably pointed lock-point 23 of much smaller diameter, so that the same will pass into and through or penetrate the smaller opening 18 at the end of said horizontal opening 17. Said wedge-pin is provided at its outer end with a cone-shaped or chamfered head 24. Arranged so as to screw into said vertical opening 19 is a binding-screw 25 which is provided at its lower end with a slotted head 26 which permits the same to be operatively engaged by a screw-driver 27, or other suitable manipulating tool, said binding-screw 25 being further provided at its upper end with a cone-shaped or chamfered head 28 which operatively engages and co-operates with the said cone-shaped or chamfered head 24 of the wedge-pin 22. When the collar 11 has been screwed home upon said shank 5 of the nipple 4, it is desirable to securely lock the same in such position, so as to bind the several assembled parts of the electric lamp-fixture together. This result is accomplished by inserting the screw-

driver 27 through the opening 21 of said top-shell 14 of the lamp-socket and engaging the slotted head 26 of said binding-screw 25. By screwing the latter upwardly within the said vertical hole or opening 19, its cone-shaped or chamfered head 28 is caused to engage the cone-shaped or chamfered head 24 of the wedge-pin 22, so that through the wedge or cam-like movement of said engaging parts, the said wedge-pin 22 is caused to move inwardly in said horizontal hole or opening 17, the latter acting as a guide, and its lock-point 23 is thereby brought into tight and binding engagement with the threads or outer surface of the shank 5 of said nipple 4. The frictional hold, thus established between the said shank 5 and said collar 11, prevents the latter from becoming displaced or loosened, with a consequent danger of dismantling the assembled relation of the various parts of the electric lamp-fixture. The obvious advantages of this novel form of retaining means consists, first, that the use of the same obviates the necessity of cutting holes for screw-driver passage or screws in the shell of said socket-cover or husk, which renders the same unsightly; second, the collar 11 may be locked in any position to which it may be screwed upon said shank 5, so that there is no necessity for registering lock-screw holes or other devices in any given position and thirdly, the locking means is positive in its action and can not be tampered with by those ignorant of its use.

Referring now more particularly to Fig. 7 of the accompanying drawings, there is illustrated in said figure, a slightly modified form of fastening or locking means. The various parts of the fixture are exactly the same as those herein-above described and may be identified by the same reference-letters and description. The only difference in this modified construction consists in providing a collar 29 having an extension or lug 30 in which is a horizontally extending opening or hole 31 communicating with the screw-threaded opening 32 of said collar. Said extension or lug 30 is further provided with a screw-threaded vertical opening 33 into which is screwed a binding screw 34, which is provided upon its upper end with a cone-shaped or chamfered head 35. Said collar is also provided with the bead 36 for retaining in connection therewith the top-shell 14 of the lamp-socket. Arranged within said horizontal opening or hole 31 is a locking ball 37 which is forced by the upward movement of said binding-screw 34 into frictional holding engagement with the shank 5 of said nipple 4, for the purposes above set forth and described, and as will be clearly understood from an inspection of said Fig. 7.

I am aware that changes may be made in

the general arrangements and combinations of the various devices and parts, as well as in the details of the construction of the same, without departing from the scope of the present invention, as set forth in the foregoing specification, and as defined in the claims appended thereto. Hence, I do not limit my invention to the exact arrangements and combinations of the devices and parts described in the said specification, nor do I confine myself to the exact details of the construction of the said parts, as illustrated in the accompanying drawings.

I claim:—

1. The combination with a socket-cover or husk and a nipple, of means for securing the former in its fixed connection with relation to said nipple comprising a collar provided with a horizontal opening and a vertical screw-threaded opening in communication therewith, a binding-screw arranged in said vertical opening, and a locking-means slidably arranged in said horizontal opening and adapted to be operated by said binding screw, said binding-screw being manipulable from the lower open portion of said socket-cover or husk, substantially as and for the purposes set forth.

2. The combination with a socket-cover or husk and a nipple, of a shank connected with said nipple and projecting within said socket-cover or husk, a collar arranged upon said shank, a lamp-socket shell, means for connecting said lamp-socket shell with said collar, a lateral extension or lug connected with said collar and provided with a horizontal opening and a vertical screw-threaded opening in communication therewith, a binding-screw arranged within said vertical opening, and a locking means slidably arranged within said horizontal opening and adapted to be operated by said binding-screw to bring the same in holding engagement with the shank of said nipple, said lamp-socket shell being provided with an opening registering with the head of said binding-screw, whereby the latter may be manipulated from the lower open portion of said socket-cover or husk, substantially as and for the purposes set forth.

3. The combination with a socket-cover or husk and a nipple, of a shank connected with said nipple and projecting within said socket-cover or husk, a collar arranged upon said shank, a lamp-socket shell, means for connecting said lamp-socket shell with said collar, a lateral extension or lug connected with said collar and provided with a horizontal opening and a vertical screw-threaded opening in communication therewith, a bind-

ing-screw arranged within said vertical opening, a wedge-pin slidably arranged within said horizontal opening, a locking-point at the inner end of said wedge-pin, said locking point being adapted to project through a smaller opening at the end of said horizontal opening with which said extension or lug of said collar is provided, a cone-shaped or chamfered head at the outer end of said wedge-pin, and a cone-shaped or chamfered head upon the end of said binding-screw and in operative engagement with said cone-shaped or chamfered head of said wedge-pin, substantially as and for the purposes set forth.

4. The combination with a socket-cover or husk and a nipple, of a fastening means comprising a collar, a lamp-socket shell, means for connecting said lamp-socket shell with said collar, an extension or lug connected with said collar and provided with a horizontal opening having a smaller opening of reduced diameter at its inner end, a wedge-pin arranged in said horizontal opening, a locking-point at the inner end of said wedge-pin and adapted to project through said smaller horizontal opening, a cone-shaped head at the outer end of said wedge-pin, and a binding-screw, a cone-shaped head connected with said binding screw and in engagement with the cone-shaped head of said wedge-pin, said lamp-socket shell being provided with an opening registering with the head of said binding-screw, substantially as and for the purposes set forth.

5. The combination with a fixture provided with a nipple, of a socket-husk or cover, means for securing said socket-husk or cover to said fixture, comprising a collar arranged upon said nipple, a lamp-socket shell, means for connecting said lamp-socket shell with said collar, a binding-means connected with said collar for locking the latter in its connection with said nipple, and means for forcing said binding-means in engagement with said nipple comprising a vertically disposed screw carried by said collar, and a cone-shaped head connected with said screw adapted to engage said binding-means, said screw being manipulable from the lower portion of said socket-cover or husk.

In testimony, that I claim the invention set forth above I have hereunto set my hand this 10th day of February, 1911.

FRITZ STORSBERG.

Witnesses:

FREDK. C. FRAENTZEL,
FREDK. H. W. FRAENTZEL.