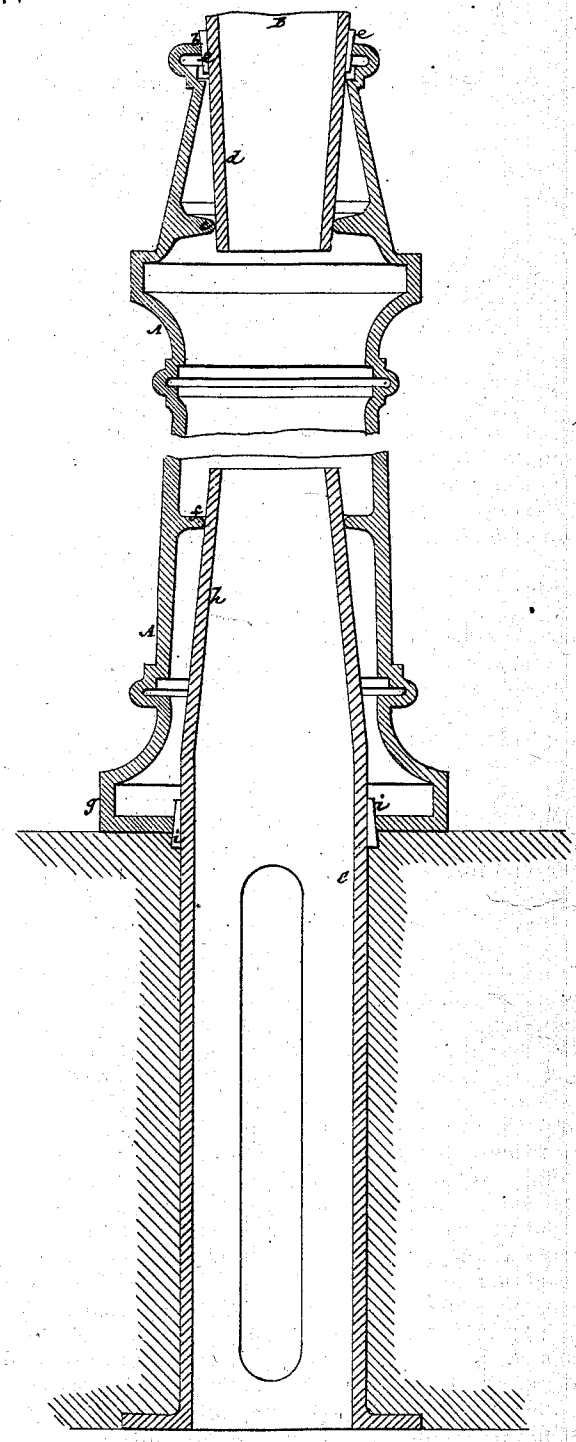
L. A. GOUCH.
Lamp-Posts.

No. 139,504. Patented June 3, 1873.

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# UNITED STATES PATENT OFFICE.

LYMAN A. GOUCH, OF YONKERS, NEW YORK.

## IMPROVEMENT IN LAMP-POSTS.

Specification forming part of Letters Patent No. **139,504**, dated June 3, 1873; application filed October 1, 1872.

*To all whom it may concern:*

Be it known that I, LYMAN A. GOUCH, of Yonkers, in the county of Westchester and State of New York, have invented a new and useful Improvement in Lamp-Posts; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing forming part of this specification, and which represents a vertical sectional broken view of a lamp-post, in part, constructed in accordance with my invention.

This invention relates to lamp-posts for street use and other purposes or places in which the post is composed of a main body or base part having an extension or trunk which runs down into the ground, and upper portion usually made separate from the main body. Ordinarily the trunk or lower extension of the main body of the post is cast in common or of one piece with said body. This not only makes the structure heavy to handle by reason of the weight of the two parts in a single casting, but the post after erection is very liable to fracture from a variety of causes at the junction of the main body or base-piece with the trunk or lower extension, said junction being where the post rests upon the pavement or is level with the upper surface of the ground. In such case, the breaking of the post at the place indicated entails loss of the whole casting. My invention obviates this; and consists in the construction of the post in sections—that is, not only the upper part made separate from the base portion or main body substantially as referred to and described in Letters Patent, No. 121,165, issued to me November 21, 1871, but also the latter and its trunk or lower extension constructed separate one from the other, and fitted together by an upper internal flange in the base piece arranged to receive a tapering upper-stem portion of the trunk or lower extension, and the latter being secured below by wedges interposed between the bottom of the base piece and trunk—whereby the lamp-post is stiffened at its level with or in proximity to the ground; and in case of fracture at such point but one of said parts requires to be removed. Furthermore, the disconnection of the fractured piece may readily be made by simply knocking out one or more of the wedges, and a new casting be as readily replaced, and the post, when its several parts are fitted together, being firmer than if it were made of a single casting.

In the accompanying drawing, A represents the main body or base piece of the post, the upper portion of which is constructed, substantially as described in Letters Patent, No. 121,165, issued to me November 21, 1871, with an upper internal flange or bearing, *b*, and lower internal flange, *c*, of different diameters and arranged at suitable distances apart to constitute a steady support to the top piece B of the post, which latter piece is formed with a tapering stem, *d*, to correspond with and fit within said differential internal flanges, wedges *e* being introduced between the upper internal flange of the base-piece A and stem of the upper piece B, to obtain a vertical adjustment of the latter piece in the main body or base-piece. C is the trunk or lower extension of the main body A, said trunk entering the ground below the pavement and having the usual base-flange and slots in its sides to give it a steady seat and provide for the introduction of the gas-pipe. Instead of casting this trunk, however, in one piece with the main body, as has been the custom heretofore, I make it like the upper part B, separate and distinct from the main body A, and construct the latter with a supplemental internal entire or divided flange, *f*, at any desired distance from the bottom external flange *g*, which rests upon the pavement or upper surface of the ground; and further construct the upper portion of the trunk C with a tapering extension, *h*, arranged to snugly fit or wedge itself within the internal flange *f*, but of less diameter than the interior of the lower end of the main body A, in order that wedges *i* may be inserted within the external flange portion *g*, or, in other words, between the lower end of the main body and sides of the tapering extension *h*, to obtain a vertical adjustment of the trunk C and main body A, and, in connection with the internal flange *f*, to hold said two parts of the post firmly together.

By this separate construction and mode of uniting the main body and trunk of the post, the latter is generally stiffened and strengthened, and in case of fracture at or near the

root of the main body, only one part of the post will require to be renewed. By the division of the post, too, the handling of any excessive weight is avoided, and a lamp-post made up of three parts, united as described, is not liable to disturbance of its perpendicularity of one part without the whole. The weight of the base part A, and upper part, B, is, by the arrangement of the flange *f*, tapering portion *h* of the trunk, and wedges *i*, made to directly contribute to the firm or solid union of the separately constructed main body A and trunk C.

What is here claimed, and desired to be secured by Letters Patent, is—

A lamp-post composed of a separate main body, A, a separate upper part, B, and a separate trunk or lower part, C, when said parts or pieces are constructed to have a tapering fit, one within the other, by means of internal flanges in the main body and tapering extensions of the upper and lower parts, essentially as specified.

Witnesses: L. A. GOUCH.

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