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E. A. HEATH.

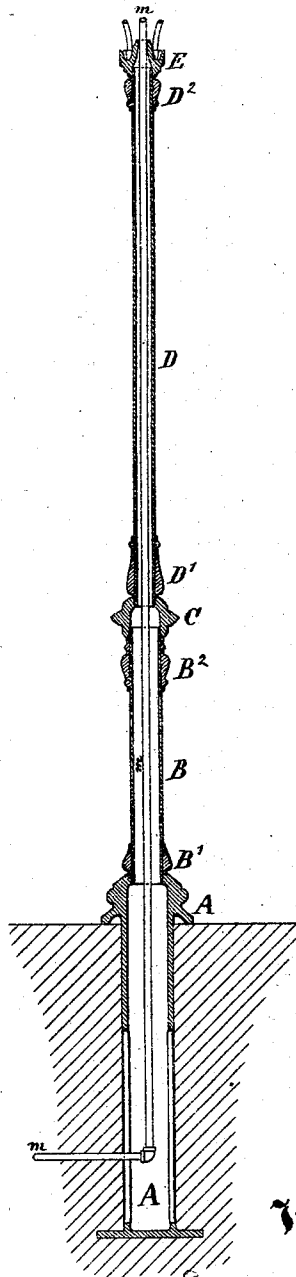
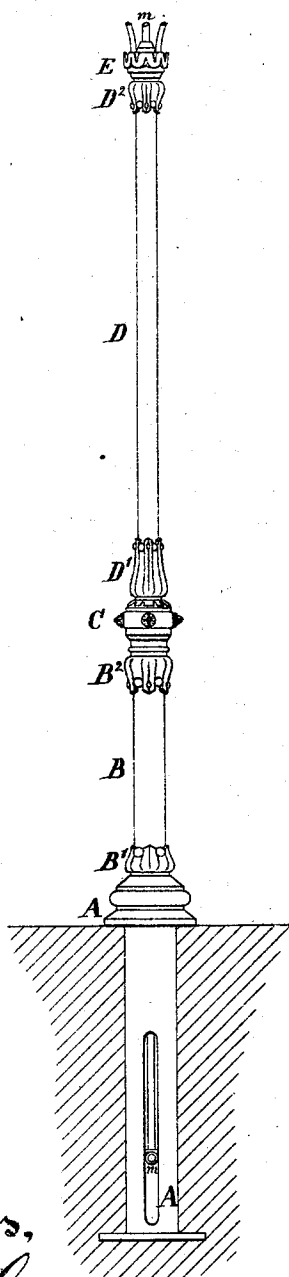
Lamp Post.

No. 122,887.

Patented Jan. 23, 1872.

Fig. 1.

Fig. 2.



Witnesses,
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UNITED STATES PATENT OFFICE.

EUGENE A. HEATH, OF NEW YORK, N. Y.

IMPROVEMENT IN LAMP-POSTS.

Specification forming part of Letters Patent No. 122,887, dated January 23, 1872.

Specification describing an Improvement in Lamp-Posts, invented by EUGENE A. HEATH, of New York city, in the State of New York.

The post is composed of wrought-iron and cast-iron, peculiarly constructed and combined. It is made in sections, screwed together. It may be shipped in sections to distant points and applied together at the place where it is to be set up; or the sections may be put together tightly and securely at the manufactory, as preferred.

The following is a description of what I consider the best means of carrying out the invention.

The accompanying drawing forms a part of this specification and represents the lamp-post and its several parts when completed and put together and set up for use. The means of manufacturing the several parts will be sufficiently plain from the description alone.

Figure 1 is a side elevation of the entire post with a section of the earth in which it is set up. Fig. 2 is a central vertical section through the whole.

Similar letters of reference indicate like parts in both the figures.

A is the lower portion, which is set in the ground, and may be constructed of cast-iron alone, with a broad base at the bottom and two considerable slots above to allow the insertion of a service pipe, *m*, at various levels, in the usual manner. The upper end of the base piece A is threaded internally to receive the corresponding-threaded end of the next section B. This section B is formed of wrought-iron and cast-iron combined. A length of wrought-iron tubing, lap-welded preferred, is placed in the mold and melted cast-iron is poured in the cavities provided, surrounding each end, forming the cast-iron ornaments represented by B¹ B². The heat of the melted cast-iron is imparted to the adjacent tubing and induces a species of weld. There is little strain coming upon these parts, and experiment

has proved that the union is sufficiently firm to form a permanent and durable connection. The ornamental character of the additions B¹ B² may be varied indefinitely. C is a coupling piece, made, also, ornamental on its exterior, and threaded to match the upper end of the section B and the lower end of a slenderer but longer section, D, which is formed in the same manner as already described for the section B. The cast-iron additions to this section, D, are marked D¹ D². The section D is threaded at each end, and receives at its upper end a top piece, E, which is adapted to support the lamp.

I have shown the service pipe as extending up through the entire lamp-post, but have omitted to represent any burner or controlling-cock at the top, or any lamp or supporting frame therefor. Those parts may be of any ordinary or suitable character, or may be varied indefinitely.

The tubing B and D should be of sufficient thickness to carry large and strong screw-threads; or, in default of a sufficient thickness, an additional thickness should be welded on the ends.

The threads may be cut by machinery very rapidly and cheaply. So, also, the threads may be tapped in the castings, to which they apply, by machinery of any ordinary or suitable character.

I claim as my invention—

The within-described lamp-post, formed of tubes of different sizes, with cast-iron attachments and coupling pieces, formed and united in the manner and adapted to serve together, as herein set forth.

In testimony whereof I have hereunto set my name in presence of two subscribing witnesses.

EUGENE A. HEATH.

Witnesses:

C. C. LIVINGS,
ARNOLD HOERMANN.