

(No Model.)

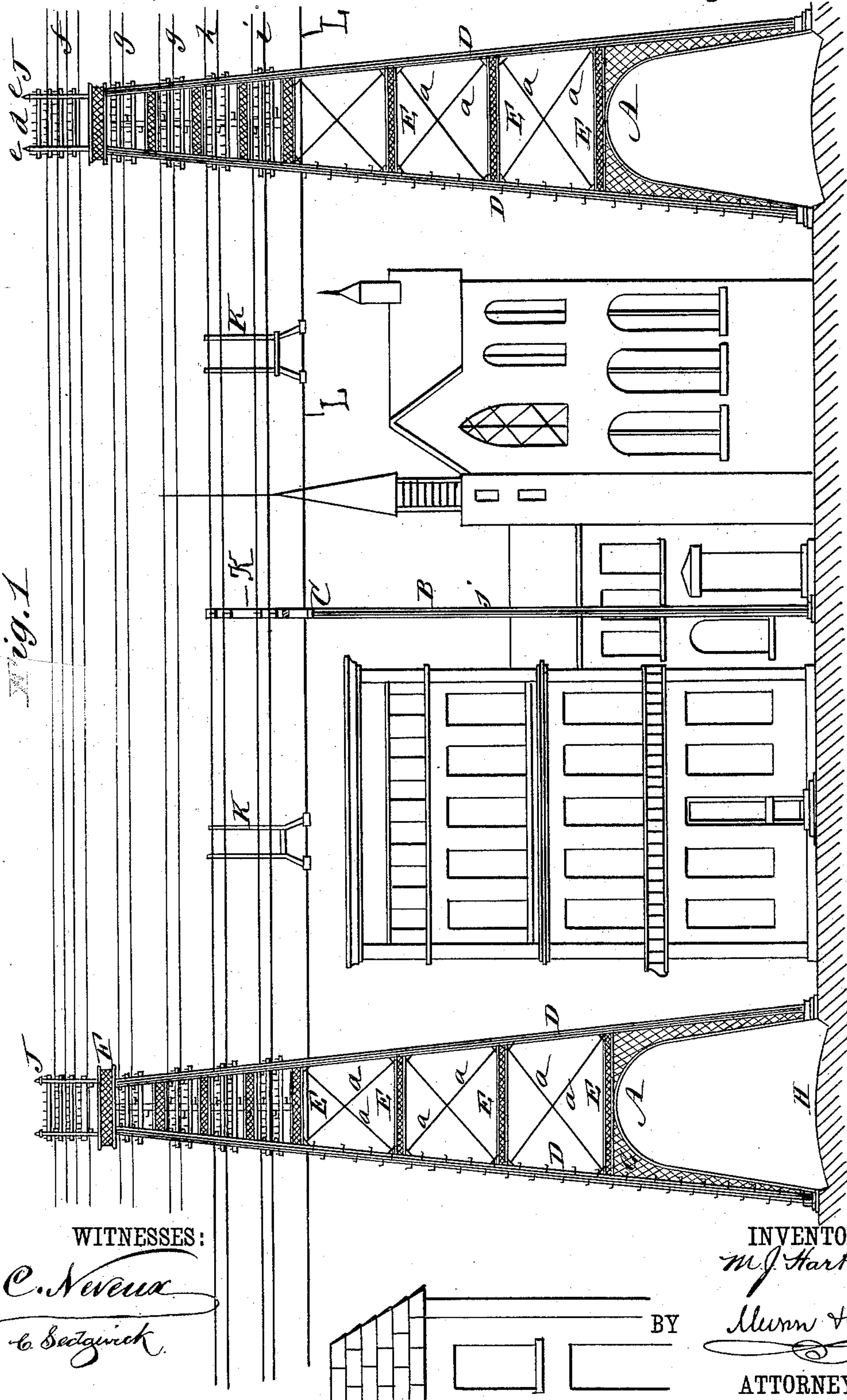
3 Sheets—Sheet 1.

M. J. HART.

SUPPORT FOR ELECTRIC CONDUCTORS.

No. 368,766.

Patented Aug. 23, 1887.



(No Model.)

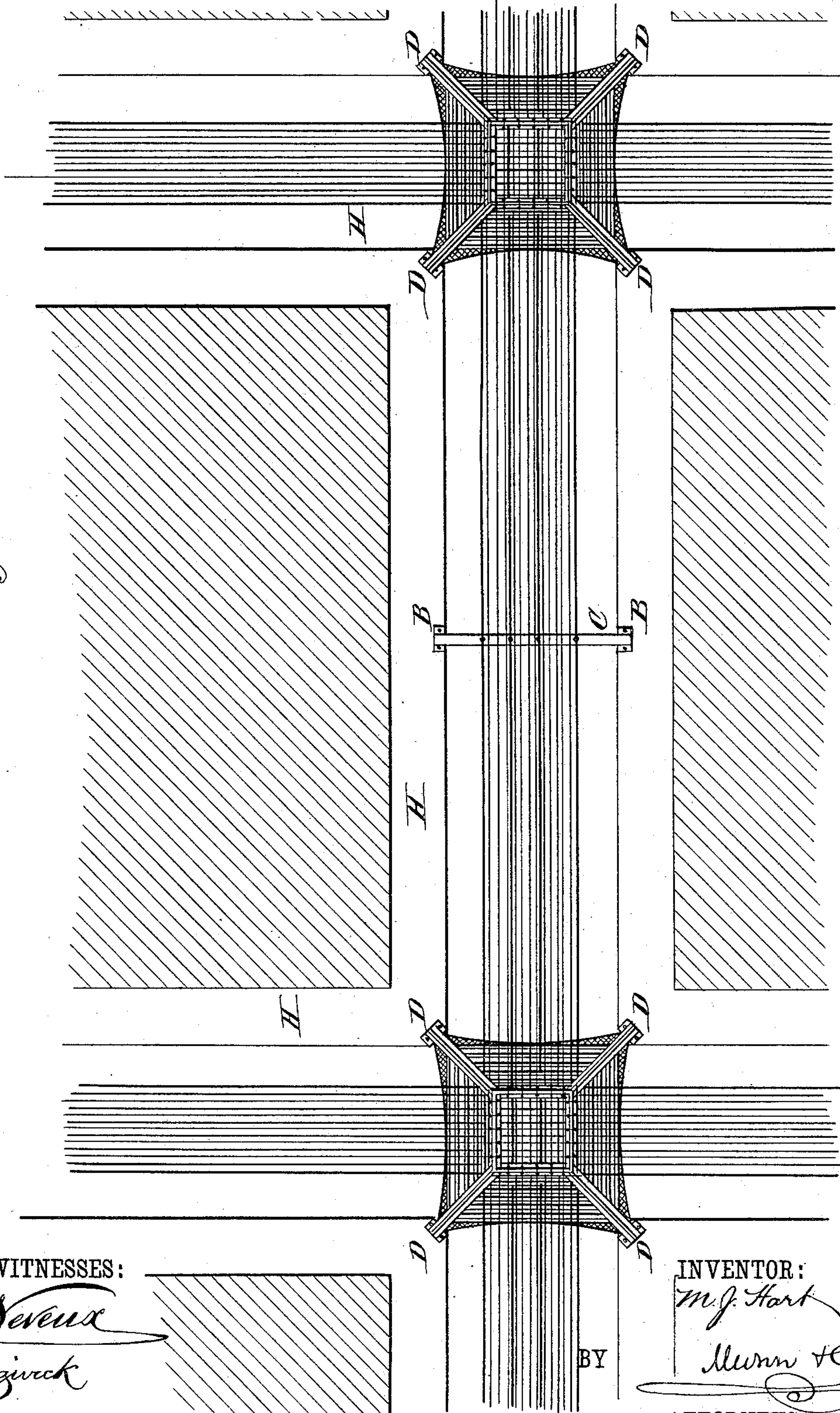
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Fig. 2



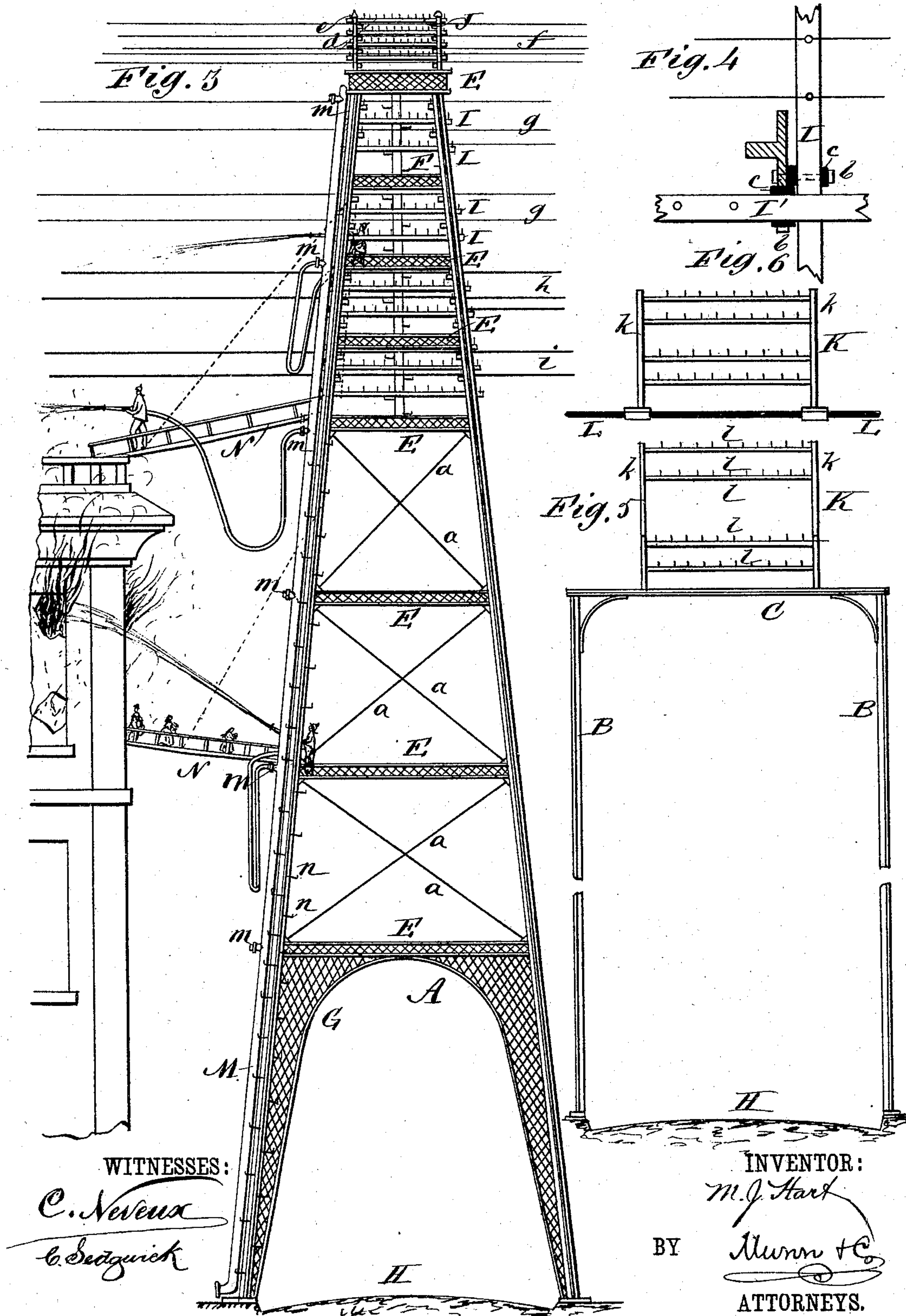
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UNITED STATES PATENT OFFICE.

MAURICE J. HART, OF NEW ORLEANS, LOUISIANA.

SUPPORT FOR ELECTRIC CONDUCTORS.

SPECIFICATION forming part of Letters Patent No. 368,766, dated August 23, 1887.

Application filed April 5, 1887. Serial No. 233,718. (No Model.)

To all whom it may concern:

Be it known that I, MAURICE J. HART, of New Orleans, in the parish of Orleans and State of Louisiana, have invented a new and Improved Support for Electric Conductors, of which the following is a specification, reference being had to the annexed drawings, forming a part thereof, in which—

Figure 1 is a side elevation of a supporting system for electric conductors constructed according to my invention. Fig. 2 is a plan view. Fig. 3 is a side elevation of one of the wire and water-pipe supporting towers, showing its application as a fire-escape. Fig. 4 is a detail view of a portion of one of the wire-supporting frames. Fig. 5 is a side elevation of an intermediate wire-support; and Fig. 6 is a side elevation of a wire-supporting frame supported by cables.

Similar letters of reference indicate corresponding parts in all the views.

The object of my invention is to provide a system for supporting electrical conductors employed in telephony, telegraphy, and electric lighting, and carry the same over the tops of buildings.

My invention consists in the construction and arrangement of parts, as will be hereinafter fully described and claimed.

At the intersection of the streets are located towers A, and at points intermediate between the towers are erected the posts B, supporting the girders C. The towers A are formed of four corner-posts, D, resting upon the pavement at the street-corners near the curbstone. The posts D are connected by platforms E, arranged at suitable intervals, and to the upper ends of the posts D is secured a platform, F. Below the lower platform, E, the posts are connected by arches G, which spring from the bases of the posts and reach over the street H, the said arches being sufficiently high to permit of the passage through them of any vehicle. The towers A are of sufficient height to support all of the electric conductors above the top of the highest buildings.

The posts D are made of angle or star iron, the platforms E are made of bar and sheet iron, and the panels of the tower are stiffened by braces a extending diagonally across the tower. The timbers I I', employed for supporting the

wires, are attached to the cross-bars of the tower by bolts b, with intervening insulation, c, so that if any leakage should occur in any of the conductors and their wooden supports the current would not be communicated to the tower.

To the platform F is secured a rectangular frame, J, formed of wooden cross-bars d, supported by posts e, secured to the platform F. The bars d are provided with pins and insulators of the usual description. The smaller wires, such as telephone-wires, f, are supported by the frame J, and upon the timbers I, below the platform F, are supported telegraph-wires g. Below the telegraph-wires are supported arc-light wires h, and below the arc-light wires are supported the incandescent-light wires i.

To the girders C, supported by the posts B, is secured a frame, K, consisting of the posts k and the horizontal bars l, attached to the posts and provided with pins and insulators for receiving the wires. At points where it is inconvenient to provide an intermediate support resting on the pavement, cables L will be stretched from tower to tower and provided with frames K, having suitable feet secured to the cables L. The weight of the frames K and their wires is thus transferred through the cables L to the towers.

To one of the posts D of each tower is secured a water-pipe, M, which extends to the top of the tower and is provided at intervals with branches m for receiving hose for extinguishing fire, and the lower end of the pipe M is adapted to receive a hose connected with a fire-engine or other source of water under pressure.

The platforms E are provided with bridges N, of sufficient length to reach to buildings adjacent to the tower. These bridges, in case of fire, may be let down, so as to furnish a means of escape to the occupants of the buildings. The bridges also enable the firemen to approach the building, and furnish a convenient support for the hose. When not in use, these bridges are folded up and locked to the wires. One of the posts D is provided with pins n, arranged at suitable intervals to form a ladder, by which the ascent and descent of the tower is made. In the upper portion of the tower,

in the center thereof, is arranged a ladder, which extends through the several upper platforms, E.

My improvement systematizes the support of electric conductors, facilitates the repairing of the lines, dispenses with the unsightly telegraph-poles, and brings the conductors above the buildings, so that they do not offer any obstruction to firemen or to builders.

I do not claim the fire-escape in this application, as I am about to file a separate application therefor.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. In a support for electric conductors, the combination, with the tower A, formed of the posts D and platforms E, of the timbers I I',

connected with the tower but electrically insulated therefrom and adapted to support the telegraph-wires, substantially as shown and described.

2. The combination, with the tower A, formed of the posts D, platforms E, and braces *a*, of the frame J, formed of the corner-posts *e* and the cross-bars *d*, substantially as shown and described.

3. The combination, with the towers A, provided with the timbers I I', of the intermediate supports formed of the posts B, girders C, and frames K, substantially as shown and described.

MAURICE J. HART.

Witnesses:

ANDREW HERO, Jr.

THEO. I. WARD.