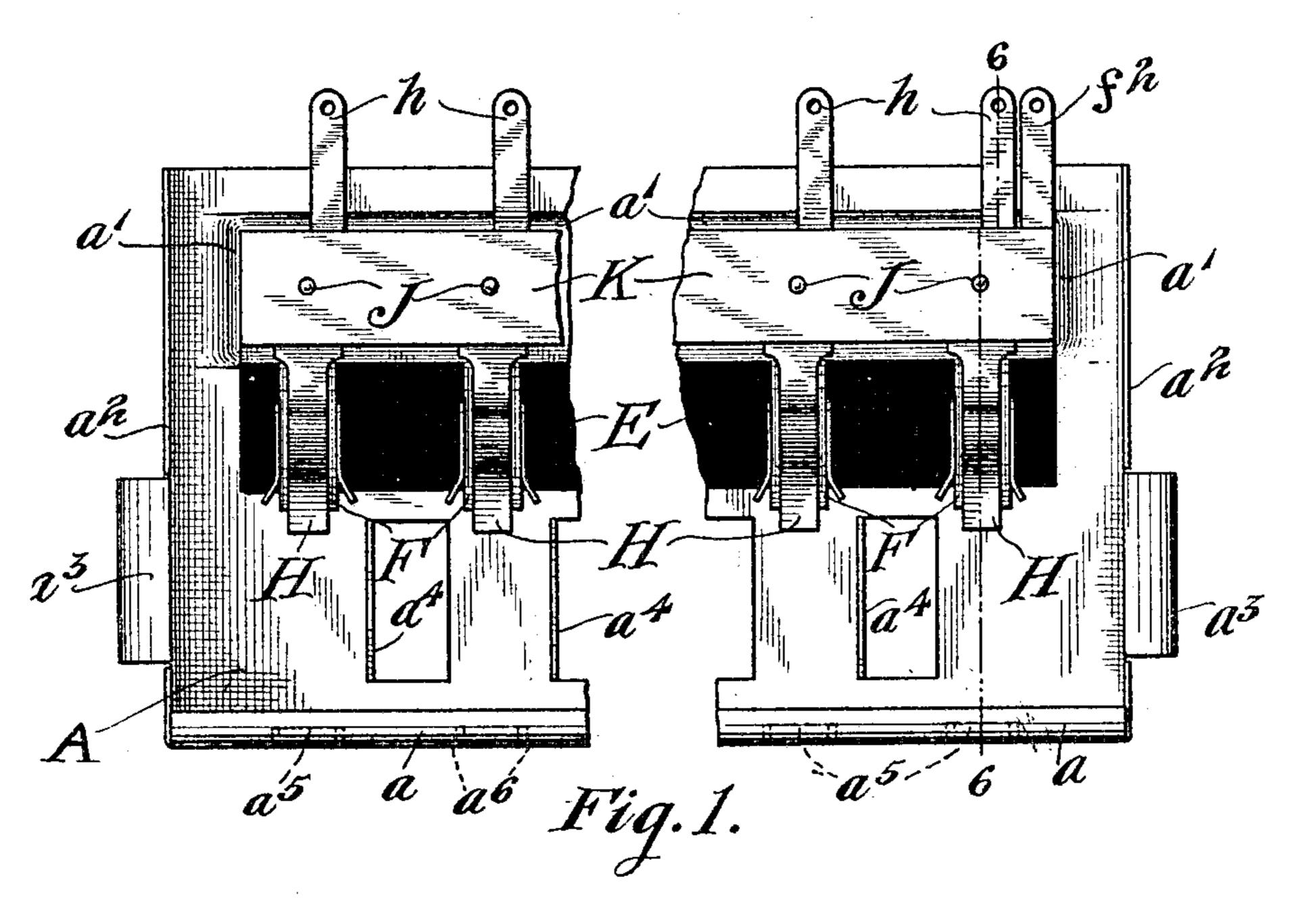
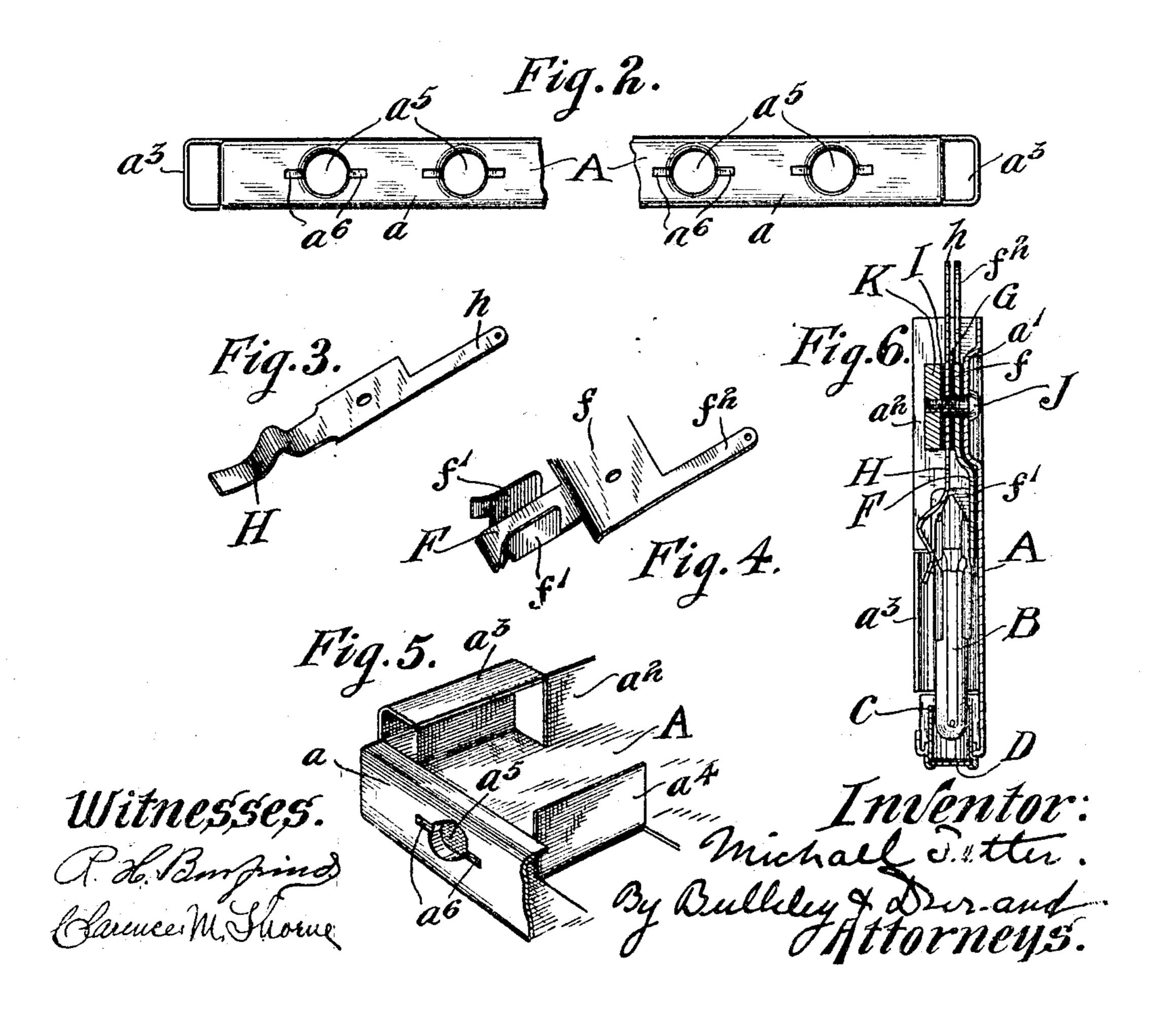
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STRIP OF LAMP JACKS.
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UNITED STATES PATENT OFFICE.

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STRIP OF LAMP-JACKS.

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resident of Chicago, Cook county, Illinois, lamp-jack strip. Fig. 6 is a section on line 6 5 have invented a certain new and useful Im- 6 in Fig. 1. provement in Strips of Lamp-Jacks, of which

the following is a specification.

My invention relates to what are commonly known as "lamp-jacks," and more 10 particularly to lamp-jacks arranged in strips or banks, each so-called "strip" of lampjacks involving a plurality of spring-jacks or spring-sockets each adapted to receive a formed integral with the said body. At its miniature incandescent lamp-such, for ex- rear the said body is provided with a raised 15 ample, as the lamps employed for signaling or pressed-up portion a'. The ends of said analogous purposes.

tion is the provision of an improved, simpli-20 fied, and highly-efficient strip of lamp-jacks.

A special object is the provision of an improved construction and arrangement by which the body of the strip of lamp-jacks may be made of sheet metal stamped or 25 pressed into suitable form and whereby it will be impossible for the heat of the lamps to warp the front of the lamp-jack strip or to distort or injure other parts of the strip of lamp-jacks, as has heretofore often hap-30 pened in lamp-jack strips having the front and other portions made of rubber or similar material.

It is also an object, of course, to provide certain details and features of improvement 35 tending to increase the general efficiency and serviceability of a strip of lamp-jacks of this particular character.

To the foregoing and other useful ends my invention consists in matters hereinafter set

40 forth and claimed.

In the accompanying drawings, Figure 1 is a plan view of a strip of lamp-jacks embodying the principles of my invention, the central or middle portion thereof being broken 45 away for convenience of illustration, it being understood that said strip may be of any suitable length and may involve any suitable or desired number of lamp-jacks for lamps of any suitable character. Fig. 2 is a front 50 view of the strip of lamp-jacks shown in Fig. 1, it being observed that in neither of these figures are the lamps and light-transmitting members shown. Fig. 3 is a detail perspec-

Be it known that I. Michael Setter, a lower jack-springs. Fig. 5 is a detail percitizen of the United States of America, and a spective of one forward corner portion of the

As thus illustrated my improved strip of 60 lamp-jacks comprises a body A, made, preferably, of sheet metal, stamped or pressed into the desired shape. At its front or at its lower edge, according to the position in which the strip is employed, the said body 65 is provided with a flange or front plate a, purposes in telephone-exchanges and for other | body are provided with flunges at and with 70 lags a^3 for securing the strip of jacks to the Generally stated, the object of my inven- | so-called "stile-strips." Furthermore, the that portion of the body adjacent to the front plate is provided with partitions a^4 , each formed by cutting out a rectangular metal 75 portion and bending it upward or outward. As will hereinafter more fully appear, these partitions separate the incandescent lamps B one from the other, and thus exclude the light of one from the others, and thereby pre- 80 vent false signaling. As shown, the front plate a is provided with openings or sockets a, each opening or socket being arranged directly in front of the forward or lower end of one of the miniature incandescent lamps B. 85 The thimbles or sockets C are adapted to fit within the said openings as and are each provided with a light-transmitting member D. It will be seen that each thimble extends inwardly and partially over the bulb or end of 90 the incandescent lamp arranged opposite the opening in which the thimble is inserted. As a means of insuring the easy insertion and removal lof the thimbles C each opening a^5 is provided at its sides with small notches or in- 95 dentations a^6 , adapted to receive the ends of a pair of tweezers or other like tool. In this way the end portion of said tool can be inserted at each side of the thimble and in such manner as to insure the easy removal of the 100 latter.

A flat sheet of rubber or other like insulation E is laid flatwise upon the upper or outer surface of the body A and forms a rest or seating surface for the lower or inner jack- 105 springs F. It will be understood that these lower jack-springs F can be formed from a tive of one of the upper or outer jack-springs. | piece of sheet metal, and thus connected in

common by a strip f. It is this strip f which bears upon and clamps the insulating-sheet E in place. The said lower inner jacksprings are each preferably provided with 5 cheeks or guards f', which receive the rear end of the incandescent lamp between them, and thereby insure accurate insertion of such lamp. A single terminal f^2 , made ingrat with the strip f, serves for all of the lower to or inner jack-springs. A second strip of rubber or like insulation G is then placed upon the top of the strip f. The upper jacksprings II, each provided with a terminal h, are then placed upon the strip G and in po-15 sition above the lower or inner jack-springs. A third strip of rubber or other insulation I is then laid upon the said outer or upper jack-springs. The superimposed strips and springs are then all clamped in place by 20 means of screws J, extending upwardly or outwardly through the body and into a metal claniping-strip R. In this way the jacksprings are securely and properly assembled in place upon the raised portion a' of the 25 body and are held in position to receive the lamps. In other words, each pair of jacksprings, consisting of a spring II and a spring F, is arranged opposite one of the openings as. Consequently when current is 30 caused to flow through one of said lamps it illuminates its allotted light - transmitting member D and produces the desired signal. Inasmuch as the body is in no way dependent upon anything but metal for its stiffness and 35 rigidity, no part of it can be warped or distorted by the heat of the lamps. The jacksprings can be stamped or pressed out of sheet metal, thus insuring economy of manufacture. This is also true, as previously 40 stated, of the body A of the strip of lampjacks.

It will be understood, of course, that the lamps are not shown in Fig. 1. A lamp properly adjusted in place is shown in Fig. 6. What I claim as my invention is-

1. A strip of lump-jacks having a body made of sheet metal bent into shape to provide an integral front plate having a plurality of lump-openings, and lamps in said jacks.

2. A strip of lamp-jacks comprising a body made of sheet metal bent into shape to provide a raised base, and also an integral front plate having a plurality of lump-openings, together with a plurality of jack-springs ar-55 ranged in pairs and suitably secured upon said raised portion of the body, and lamps in said jacks.

3. A strip of lamp-jacks comprising a pressed sheet-metal body having an up-60 turned integral front plats provided with springs arranged in pairs and suitably mounted ed upon said body, each pair being mounted opposite one of said openings, the lower or intending substantially from one lug to the other. a plurality of openings, and having jack-

formed of a sheet-metal strip stamped and pressed into shape to provide several forwardly-extending jack-springs connected in common, and a miniature incandescent electric lamp removably held in each jack, to- 70 gether with an upper clamping-strip K and screws J by which both upper and lower jack-springs are clamped in place, said metal strip of the lower jack-springs having said screws extending therethrough, all in combi- 75 nation, substantially as set forth.

4. A strip of lamp-jacks comprising a metal body having an integral upturned front plate provided with a plurality of openings, a chamber back of said plate, thimbles remov- 80 ably inserted in said openings, each thimble being provided at its outer end with a lighttransmitting member, spring-jacks mounted upon said body, and miniature incandescent lamps inserted in said spring-jacks, the jacks 35 and lamps being in the chamber back of said front plate, and the bulb of each lamp projecting into the inner end portion of one of said

thimbles. 5. A strip of lamp-jacks comprising a body 90 made of sheet metal stamped and pressed into shape to provide an integral front plate having a plurality of openings, and to provide a plurality of partitions, spring-jacks mounted upon said body, and miniature in- 95 candescent lamps inserted in said springjacks, said lamps being separated from each other by said partitions.

6. A strip of lamp-jacks comprising a sheetmetal body provided with an integral front 100 plate having a plurality of openings, and provided with integral partitions, and a plurality of spring-jacks mounted upon said body, said openings being arranged opposite the said spring-jacks, and said partitions after- 105 nating with the said jacks.

7. A strip of lamp-jacks comprising a sheetmetal body provided with an integral front plate having a plurality of ope ings, each opening having notches or indentations at 110 each side thereof, lamps in said jacks and thimbles each provided with a light-transmitting member and adapted to be inserted in said openings, said notches or indentations permitting the insertion of a tool for the pur- 115 pose of removing said thimbles, and said jacks having lower springs provided with side portions adapted to cooperate with the said thimbles in preventing lateral displacement of the lamps.

8. A strip of lamp-jacks comprising a sheetmetal body having an integral front plate provided with a plurality of openings, and having integral lugs or flanges at its ends, together with spring-jacks mounted upon said 125 body and each arranged opposite one ofsaid

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9. A strip of lamp-jacks comprising a suitable support, a plurality of lower or inner jack-springs connected in common by an integral strip of metal, upper or outer jack-5 springs each arranged to cooperate with one of said inner or lower jack-springs, each upper or outer jack-spring provided with a terminal, and the lower or inner jack-springs provided with a terminal which is integral 10 with said metal strip, all of which jacksprings have their free ends pointing toward the front of the structure, and all of said terminals projecting rearwardly, a strip of insulation interposed between the said metal 15 strip and the said upper or outer jack-springs, and a miniature incandescent electric lamp removably held in each jack, together with an upper clamping-strip K and screws J by

which both upper and lower jack-springs are clamped in place, said metal strip of the lower 20 jack-springs having said screws extending therethrough, all in combination, substantially as set forth.

10. A strip of lamp-jacks comprising lower or inner jack-springs each provided with a 25 pair of cheeks or guards, and upper or outer jack-springs each arranged to coöperate with one of said lower or inner jack-springs, together with means for securing said springs in place.

Signed by me at Chicago, Cook county, Illinois, this 9th day of January, 1905.

MICHAEL SETTER.

Witnesses:

W. LEE CAMPBELL, R. C. GIFFORD.