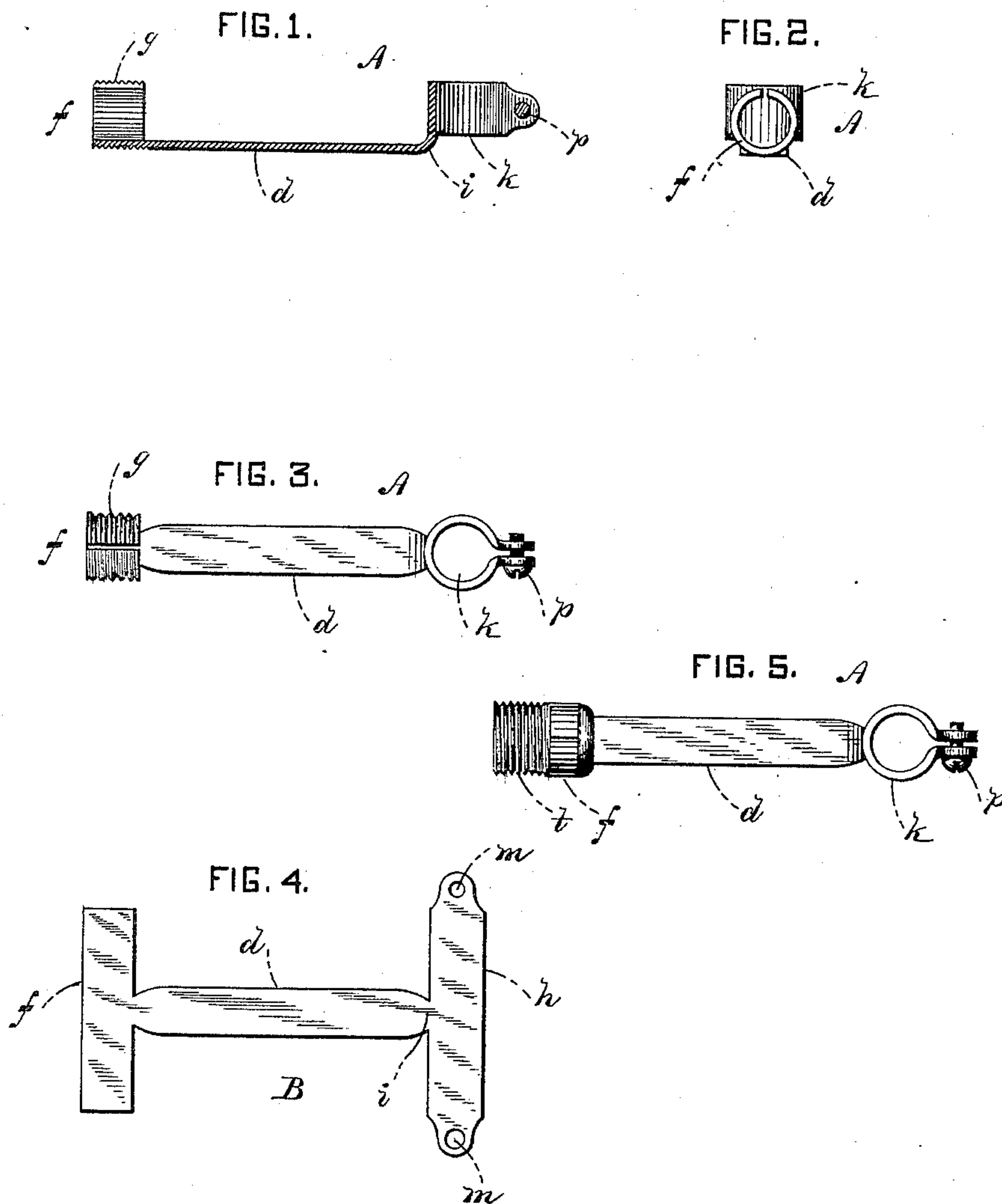


(No Model.)

N. MARSHALL.
DEVICE FOR ATTACHING INCANDESCENT ELECTRIC LAMPS TO GAS
FIXTURES.

No. 442,270.

Patented Dec. 9, 1890.



ATTEST.

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UNITED STATES PATENT OFFICE.

NORMAN MARSHALL, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO THE STAR
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DEVICE FOR ATTACHING INCANDESCENT ELECTRIC LAMPS TO GAS-FIXTURES.

SPECIFICATION forming part of Letters Patent No. 442,270, dated December 9, 1890.

Application filed June 11, 1890. Serial No. 355,047. (No model.)

To all whom it may concern:

Be it known that I, NORMAN MARSHALL, of Boston, in the county of Suffolk, State of Massachusetts, have invented certain new and useful Improvements in Devices for Attaching Incandescent Electric Lamps to Gas-Fix-
5 tures, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which
10 said invention appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a vertical longitudinal section
15 of my improved device; Fig. 2, an end elevation of the same, looking from the left in Fig. 1; Fig. 3, a top plan view; Fig. 4, a plan of the blank from which the device is constructed, and Fig. 5 a plan view showing a modification
20 of the improvement.

Like letters and figures of reference indicate corresponding parts in the different figures of the drawings.

My invention relates especially to brackets
25 for supporting incandescent electric lights on gas-fixtures; and it consists in certain novel features hereinafter fully set forth and claimed, the object being to produce a simpler, cheaper, and more effective device of
30 this character than is now in ordinary use.

The nature and operation of the improvement will be readily understood by all conversant with such matters from the following explanation.

35 In the drawings, A represents the bracket considered as a whole. The bracket is preferably formed from a blank B, (shown in Fig. 4,) cut or stamped from a single sheet of metal. This blank comprises a flat body-piece *d*, on one
40 end of which a head *f* is formed projecting laterally at right angles to said body. The ends of the head are folded or curved upward toward each other, forming a loop, the outer surface of which is screw-threaded at *g*

to receive the electric lamp. On the opposite 45 end of the body *d* a plate *h* is formed, also projecting at right angles to said body. This plate is bent vertically upward at *i* at right angles to the body, and its ends bent or curved horizontally into a loop *k*, adapted to inclose 50 the base of the gas-burner. The ends of the loops are provided with holes or openings *m* to receive a binding-screw *p*, whereby said loops may be clamped securely around said burner.

In the modification shown in Fig. 5 the head 55 *f* is bent or folded around a screw *t*, composed of hard rubber or similar insulating substance and adapted to receive the lamp-socket.

In the use of my improvement the bracket is adjusted on the lamp-burner by means of 60 its clamp *k*, its body occupying a horizontal position. The lamp may be then turned onto the threaded head *f* in the ordinary manner.

By forming the holder from a single sheet of metal, as described, a great saving of labor 65 and in the cost of construction is effected. Moreover, the device is much more durable than when the head and clamp are formed separate from the body portion and secured thereto by brazing or similar means. 70

Having thus explained my invention, what I claim is—

A bracket for attaching incandescent electric lamps to gas-fixtures, constructed from a single sheet of metal cut to form a horizontal 75 body portion, provided at one end with a head arranged at right angles thereto, said head being bent or folded upward to form a loop and exteriorly screw-threaded to receive the lamp, and at the opposite end with a plate 80 bent vertically at right angles to said body and folded or curved upon itself to form a clamp for receiving a gas-burner, substantially as described.

NORMAN MARSHALL.

Witnesses:

K. DURFEE,
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