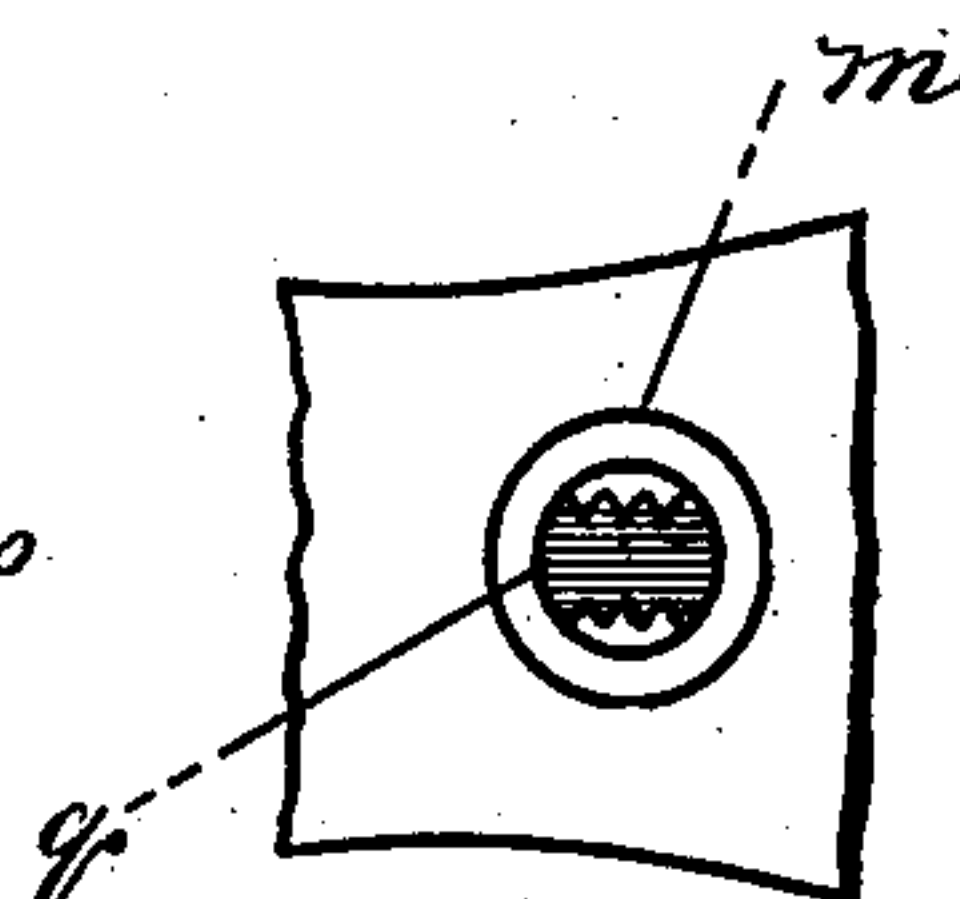
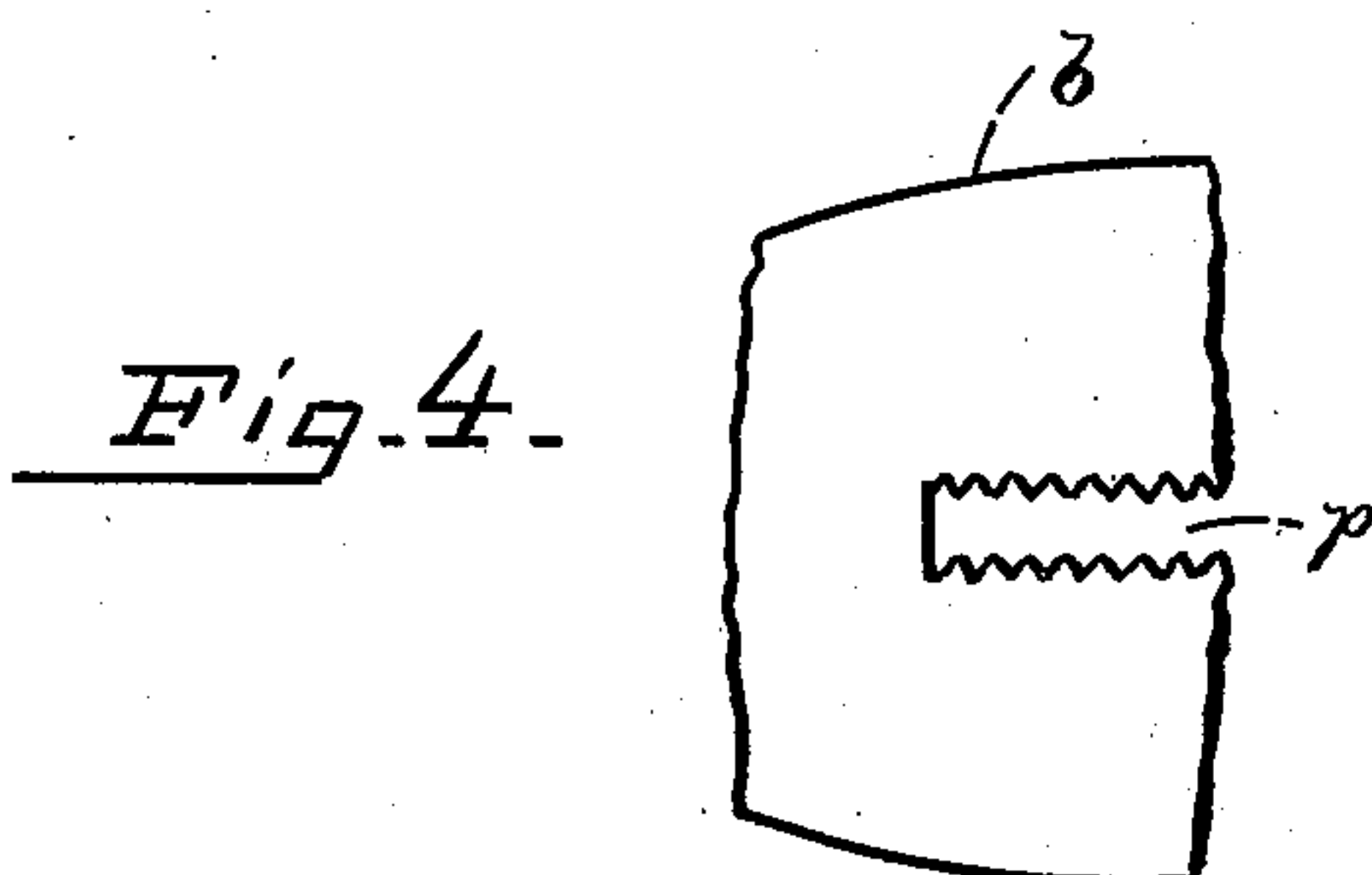
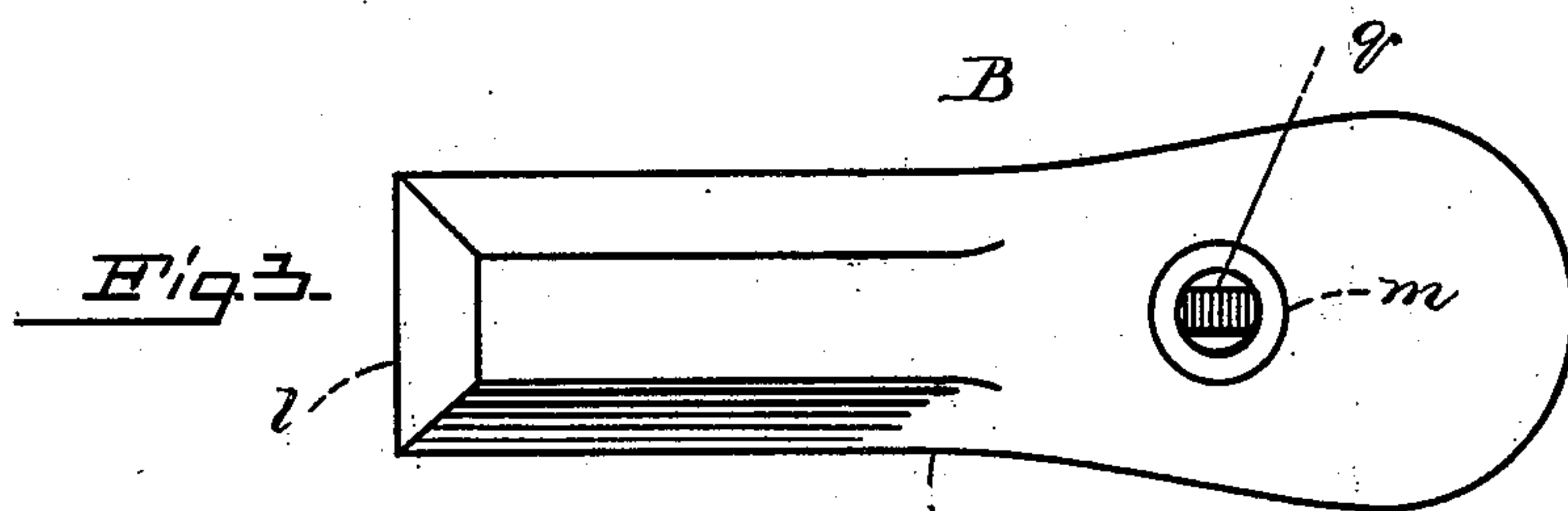
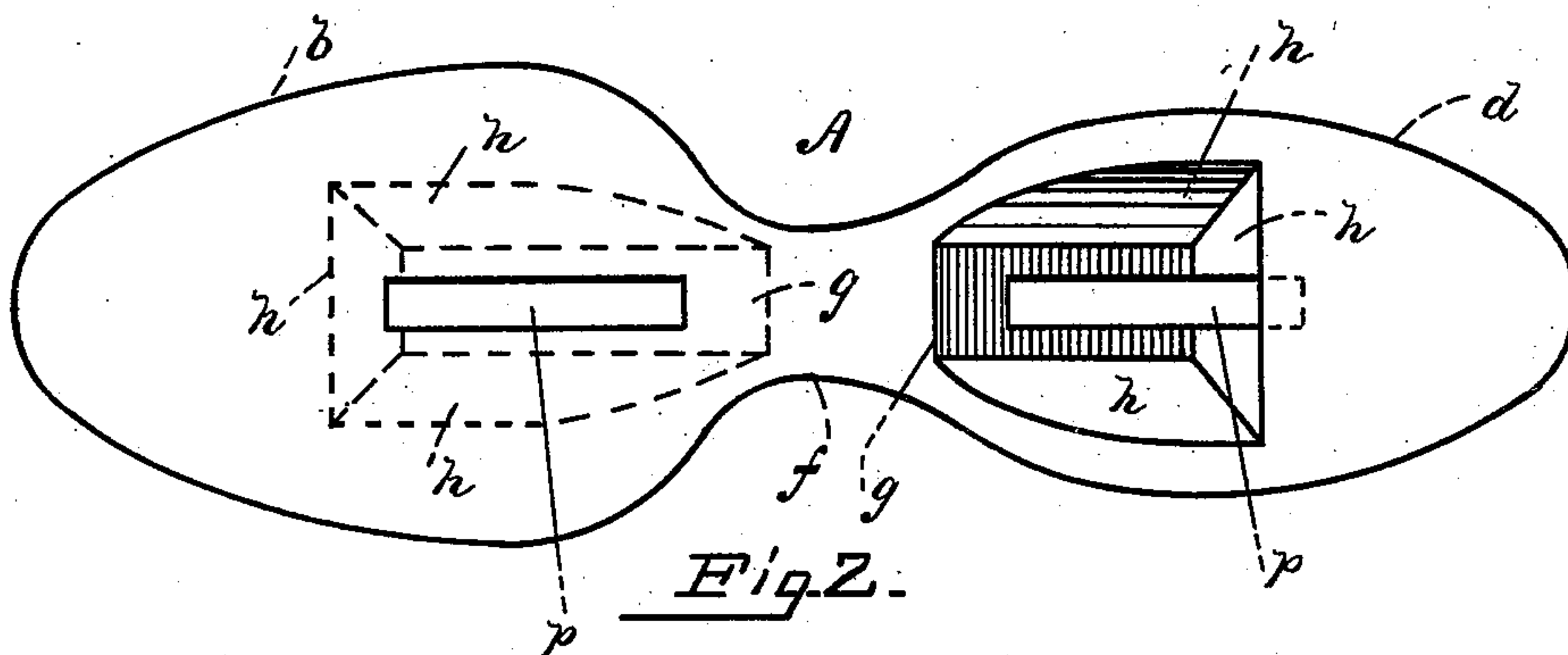
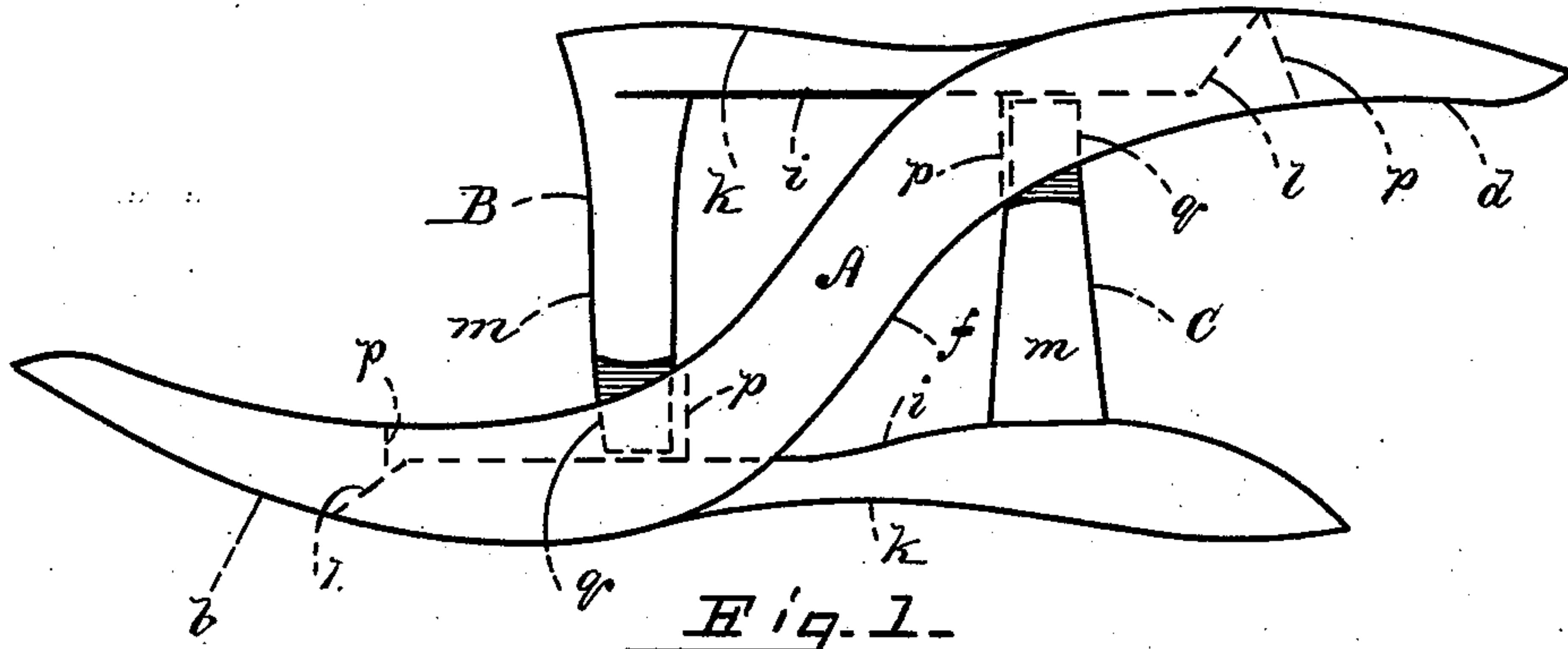


(No Model.)

A. K. CHASE.
LAST.

No. 405,011.

Patented June 11, 1889.



WITNESSES:
H. Surfer
H. M. Fugan

INVENTOR=
Addison K. Chase,
PER C. A. Shaw, Jr.,
ATTY'S.

UNITED STATES PATENT OFFICE.

ADDISON K. CHASE, OF NASHUA, NEW HAMPSHIRE, ASSIGNOR TO HIMSELF,
JOHN B. McGUIRE, JOHN J. FLOOD, AND JAMES O'NEIL, ALL OF SAME
PLACE.

LAST.

SPECIFICATION forming part of Letters Patent No. 405,011, dated June 11, 1889.

Application filed February 28, 1889. Serial No. 301,498. (No model.)

To all whom it may concern:

Be it known that I, ADDISON K. CHASE, of Nashua, in the county of Hillsborough, State of New Hampshire, have invented a certain
5 new and useful Improvement in Cobblers' Lasts, of which the following is a description sufficiently full, clear, and exact to enable
any person skilled in the art or science to
10 use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side elevation of my improved last; Fig. 2, a plan view of the same with the
15 shanks removed; Fig. 3, a bottom plan view of one of the shank portions detached, and Figs. 4 and 5 sectional views illustrating details of construction.

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

My invention relates to lasts which are especially adapted for use in repairing boots and shoes; and it consists in certain novel
25 features, as hereinafter fully set forth and claimed, the object being to produce a simpler, cheaper, and more effective device of 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.

In the drawings, A represents the body of the last, and B C the shank portions. The
35 body of the last is composed of metal, and consists of two foot portions *b d*, facing outward in opposite directions and connected by a curved central portion *f*. The foot portion *d* is of smaller size than the foot *b*. A horizontal socket *g* is formed at the rear of each
40 foot portion, said sockets having inwardly-converging walls *h*. The shanks B C are also constructed of metal, and each consists of a body portion *i*, the bottom or face *k* of which
45 is curved to form the shank and heel of the last. The forward end *l* of the shank-pieces has its edges beveled to fit the sockets *g*. A vertical arm or standard *m* is secured to the heel portion of each shank-piece, the outer
50 ends *q* of said arms being reduced or wedge-shaped. Each foot portion is provided centrally with a longitudinally-arranged vertical

slot *p*, which extends through the foot portion and into the sockets, and is adapted to receive the ends *q* of the standards *m*. The
55 body *i* of the shank-piece B is constructed smaller than the body of the shank-piece C to correspond with the foot-piece *d*.

In the use of my improvement a shank-piece B or C is disposed in the heel of the boot
60 or shoe to be repaired and the corresponding foot-piece inserted in position therein, the end *l* of the shank falling into the socket *g* and the end *q* of its arm inserted in the slot *p* of the opposite foot-piece. As said end is
65 wedge-shaped, a slight blow will cause it to bind in the slot and prevent the parts from slipping while the tap is being attached. The sides of the body A being curved, as
70 shown, they can be readily held upon the knee while in use in the shoe. The foot portions *b d* and corresponding shank-pieces being constructed of different sizes, it will readily be seen that by use of the elongated slots
75 *p* the shank-pieces can be so adjusted in the sockets as to enable the last to be employed in shoes varying greatly in size, the last shown being found in practice to take the place of thirty sizes of cobbling-lasts in ordinary use.
80

In Figs. 4 and 5 a modification is shown in the formation of the slot *p* and arm end *q*, the edges thereof being corrugated to prevent the shank-pieces from slipping when the sole is hammered upon. I do not, however,
85 deem the corrugations essential, as the wedge-shaped end serves the purpose.

Having thus explained my invention, what I claim is—

A reversible last-body having two sole portions of different sizes facing in opposite directions, horizontal flaring sockets in the sole portions, and longitudinal rectangular slots extending through said body from the bottoms of said sockets, in combination with adjustable shanks adapted to fit said horizontal
95 sockets and provided with vertical arms having wedge-shaped ends for projecting into said rectangular slots, substantially as described.

ADDISON K. CHASE.

Witnesses:

O. M. SHAW,
K. DURFEE.