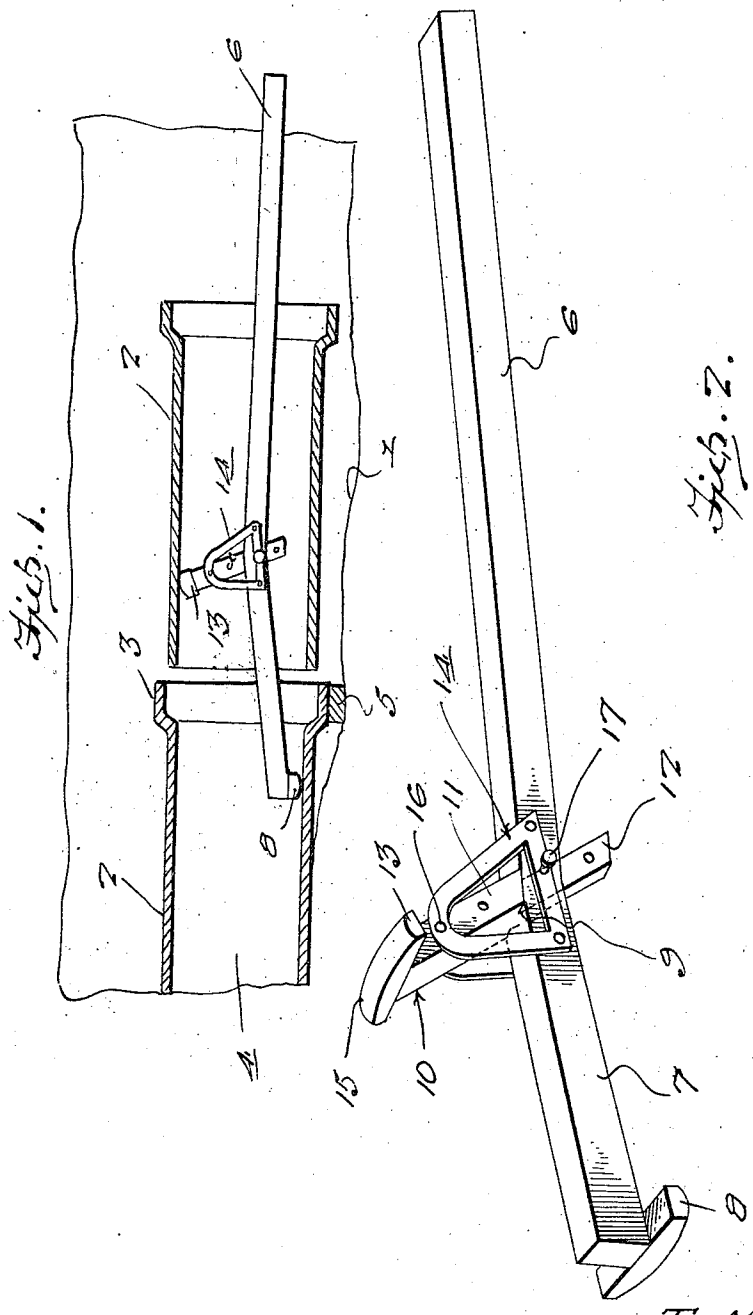
Oct. 7, 1924. 1,510,773.

T. M. FARNSWORTH

TILE LEVER

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UNITED STATES PATENT OFFICE.

THOMAS M. FARNSWORTH, OF NEWARK, NEW YORK.

TILE LEVER.

Application filed February 26, 1924. Serial No. 695,241.

To all whom it may concern:

Be it known that I, THOMAS M. FARNSWORTH, a citizen of the United States, residing at Newark, in the county of Wayne and State of New York, have invented certain new and useful Improvements in Tile Levers, of which the following is a specification.

This invention relates to tile levers of a character adapted for insertion through a tile for use in assembling a loose tile in interfitting relation with a laid tile.

An object of the invention is to provide a simple structure of tile lever, equipped with a foot on the end of the lever adapted to form a fulcrum therefor, and having an adjustable tile engaging head mounted intermediate the ends of the lever, for engaging the inner upper portion of a tile, to be placed in position, so that the tile engaging head may be adjusted for use in connection with different sizes of tile, the lever being operated manually to position the loose tile in interfitting relation with the laid tile so that it may be pushed into position, and subsequently secured in place.

The invention also comprehends other objects and improvements in the details of construction, and arrangement of the parts, which is more particularly pointed out in the following description and claim, directed to a preferred form of the invention, it being understood, however, that variations may be made, in the specific construction and assemblage of the parts, without departing from the scope of the following description and claim.

In the drawings, forming a part of this application:

Figure 1 is a vertical sectional view through a trench, showing the manner of positioning a loose tile in place, so that it may be easily interfitted into a laid tile, in the construction of a pipe line.

Figure 2 is a detail perspective view of the tile lever.

1 indicates the bottom of a trench, in which it is desired to lay a pipe line composed of a plurality of tiles indicated generally at 2, and of usual construction, having an enlarged head 3 adapted to receive the opposite end for interfitting relation of another similarly formed tile, in a manner well known in the art. A laid tile, is indicated at 4, which is arranged at the end of the parts of a construction pipe line, and properly laid in line therewith and supported by portions of the trench and levelling blocks indicated at 5, the tile being thus permanently positioned in its place in the pipe line. In placing a new tile or loose tile, for cementing in the pipe line, it is necessary to interfit the end of the new tile into the enlarged end 3 of the laid tile, and also to align the loose tile with the remaining part of the pipe line. This is accomplished in the present instance, by the use of the tile lever forming the subject of the present invention, and which includes an elongated bar 6, which forms a lever and is formed with the end portion 7 slightly inclined to the axis of the remaining portion of the lever 6 and provided at the free end with a fulcrum foot 8, which is curved on the bottom surface to provide a proper contour to seat in the curved lower portion of cylindrical tile.

At the juncture of the inclined portion 7, with the main body of the lever 6, an inclined opening is formed in the lever as indicated at 9, which receives and adjustably mounts a tile engaging head indicated generally at 10, said head including a shank portion 11 having a reduced extension 12 extending through the opening 9 for positioning the head in slidable relation with the lever. The upper free end of the shank 11 receives a tile engaging member 13, having the upper surface thereof rounded as indicated at 15, co-engaging the inner upper surface of a tile. A pair of bracket members 14 of a substantially triangular form, have the base portion 15 secured to opposite sides of the lever 6, and project upwardly on each side of the shank portion 11 of the tile engaging head 10, the upper ends of said bracket members being formed with aligned openings 16 adapted to receive a pin passing through transverse openings in the shank portion 11 of the head 10, for securing said head in an adjusted position relative to the lever 6. The base portions 15 are also formed with aligned openings, together with the lever 6 for receiving the pin 17 adapted to extend through openings in the projections 12 of the head also adapted to secure the head in adjusted position.

From this description, it will be seen that the head 10 is primarily constructed in the lever 6 for use with a desired size of tile, after which the lever is inserted through the tile in the manner shown in Figure 1 of the

drawing, so that the fulcrum foot 8 may be positioned in the laid tile 4, and the lever raised manually, by grasping the same at the opposite end for lifting the end of the loose tile into a position shown in Figure 1, so that it may be readily pushed into interfitting relation with respect to the laid tile, the lever either sliding in the laid tile or the loose tile being pushed into the laid tile on the tile engaging member 13. It is then necessary to put blocks or other supporting pieces under the free end of the tile for supporting the same in proper alignment with the laid tile and the pipe section, after which the binder or cement is inserted between the ends of the loose tile and the flange 3, for properly setting the tile in the pipe line. The lever may then be removed and used in connection with placing of another loose tile, in the manner above described, in the end of the tile just laid.

It will therefore be clear from the above description, that a simple and convenient form of tile lever has been constructed, having a loose tile engaging head, which is adjustably mounted in the lever, so that it may be adjusted for use in connection with different sizes of tile, it being understood that while a cylindrical form of tile is shown, it may as well be used with square or other cross sectional shaped tile used in forming pipe lines.

What is claimed is:

A tile lever comprising, an elongated lever bar having one end portion inclined relative to the major axis of the bar, a fulcrum foot mounted on the end of the inclined portion of said lever bar, a tile engaging head adjustably mounted at the juncture of the inclined portion, with the main body of the lever bar and extending laterally therefrom, and bracing members carried by the lever bar for said tile engaging head adapted to receive means for locking said head in an adjusted position relative to said lever bar.

In testimony whereof I affix my signature.

THOMAS M. FARNSWORTH.