M. H. KEELER.

MACHINE FOR LAYING PIPES.

APPLICATION FILED MAR. 2, 1916.

1,200,119. Patented Oct. 3, 1916.

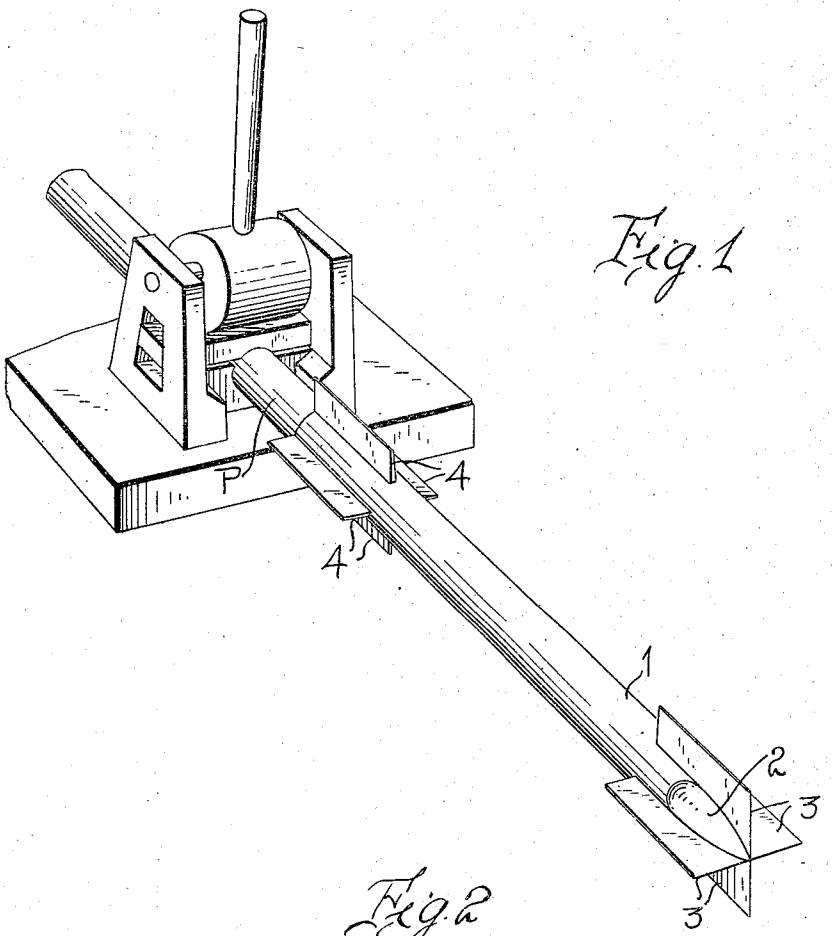
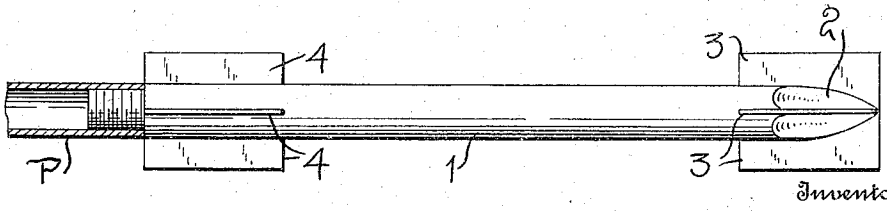


Fig. 1

Fig. 2



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UNITED STATES PATENT OFFICE.

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MACHINE FOR LAYING PIPES.

1,200,119. Specification of Letters Patent. Patented Oct. 3, 1916.

Application filed March 2, 1916. Serial No. 81,711.

To all whom it may concern:

Be it known that I, MORRIS H. KEELER, a citizen of the United States, residing at Sabetha, in the county of Nemaha and State of Kansas, have invented certain new and useful Improvements in Machines for Laying Pipes, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to certain improvements in machines for laying pipes and has relation more particularly to a point or pilot adapted to be employed in connection with a machine particularly of a type as disclosed in my Patent No. 1,015,893, dated January 30, 1912, and it is an object of the invention to provide a pilot or point which may be readily applied in operative position.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved machine whereby certain important advantages are attained and the device is rendered simpler, less expensive and otherwise more convenient and advantageous for use, all as will be hereinafter more fully set forth.

The novel features of the invention will hereinafter be definitely claimed.

In order that my invention may be the better understood, I will now proceed to describe the same with reference to the accompanying drawings, wherein—

Figure 1 is a view in perspective illustrating my improved pilot in applied position; and Fig. 2 is a view in side elevation of my improved pilot, the coacting pipe being shown in section.

As disclosed in the accompanying drawings, P denotes a pipe adapted to be clamped to a longitudinal member in a manner and and for a purpose which is particularly described and illustrated in my prior Patent No. 1,015,893 dated January 30, 1912.

My improved point or pilot is adapted to be operatively engaged with the forward end of the pipe P and as herein disclosed, my improved point or pilot comprises an elongated rod 1 of predetermined dimensions having its periphery at one end threaded so that the same may be operatively engaged with the forward end of the pipe P, while the opposite end portion 2 of the member 1 is pointed in order to facilitate its entrance within the ground.

The forward or pointed end of the rod 1 is provided with the radially disposed and longitudinally directed flanges 3, the forward margins of which being formed into substantially knife edges and the opposite end portion of the rod 1 inwardly of and immediately adjacent the threaded portion is provided with the longitudinally disposed radial flanges 4, said flanges 4 being in longitudinal alinement with the flanges 3, hereinbefore referred to.

It is to be noted that the forward edges of the flanges 3 are at right angles to the longitudinal axis of the elongated rod 1 and are flush with the outer extremity of the pointed end portion 2. By having the forward edges of the flanges 3 straight, it will be at once perceived that as the pilot enters the earth, the pointed end portion 2 is effectively prevented from being deflected. Should the end portion 2 strike a hardened substance, the flanges 3 prevent the same from being deflected. The back flanges 4 further serve to assure the member 1 traveling in a straight line. It has been fully demonstrated in actual practice that with the use of the back or rear flanges 4, the pointed end portion 2 will steer straight through hard pan soil and force aside small boulders without deflecting the straight course of the pilot. It will also be perceived that each set of flanges 3 and 4 are perpendicularly related with certain of the opposed flanges substantially horizontal and the remainder of the flanges substantially vertical, whereby side or upward movement of the member 1 is prevented.

From the foregoing description, it is thought to be obvious that a machine constructed in accordance with my invention is of an extremely simple and comparatively inexpensive nature and is particularly well adapted for use by reason of the convenience and facility with which it may be assembled, and it will also be obvious that my invention is susceptible of some change and modification without material departure from the principles and spirit thereof and for this reason I do not wish to be understood as limiting myself to the precise arrangement and formation of the several parts herein shown in carrying out my invention in practice.

I claim:

1. A pilot for a pipe laying machine comprising an elongated member provided with attaching means at one end, and radially and

longitudinally disposed flanges carried by the member adjacent its opposite ends, the forward edges of the front flanges being perpendicular to the longitudinal axis of the elongated member and flush with the penetrating end thereof.

2. A pilot for a pipe laying machine comprising an elongated member provided with attaching means at one end, and radially and longitudinally disposed flanges carried by the member adjacent its opposite ends, the forward edges of the front flanges being perpendicular to the longitudinal axis of the elongated member and flush with the penetrating end thereof, said flanges being in radial alinement.

3. A pilot for a pipe laying machine comprising an elongated member provided with attaching means at one end, and radially and longitudinally disposed flanges carried by the member adjacent its opposite ends, the forward edges of the front flanges being perpendicular to the longitudinal axis of the elongated member and flush with the penetrating end thereof, the forward end of the pliot being pointed and the forward ends of the adjacent flanges being formed into knife edges.

4. A pilot for a pipe laying machine comprising an elongated member provided with attaching means at one end, and radially and longitudinally disposed flanges carried by the opposite end portion of the member, the forward edges of said flanges being at right angles to the longitudinal axis of the elongated member and flush with the adjacent end thereof.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

MORRIS H. KEELER.

Witnesses:
F. C. WOODBURY,
A. L. MAYER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."