S. W. HERSEY.

STEAM PIPE CONDUIT.

APPLICATION FILED FEB. 15, 1909.

921,832. **Patented May 18, 1909.**

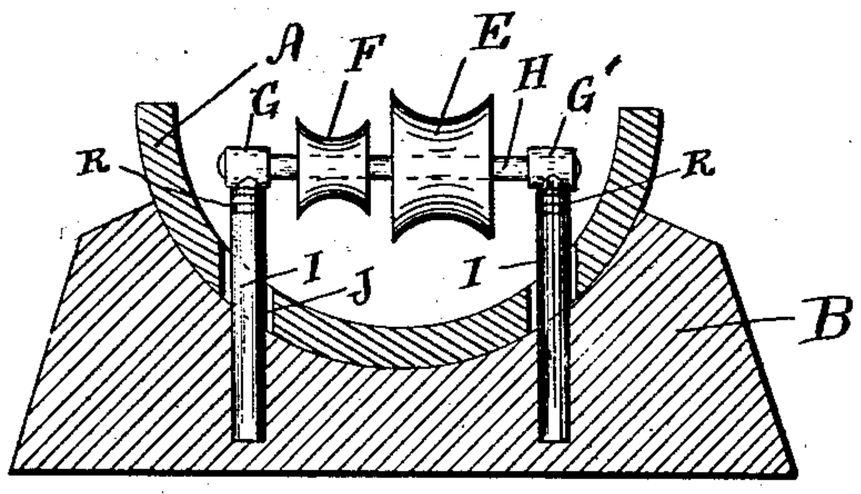

Fig. 1.

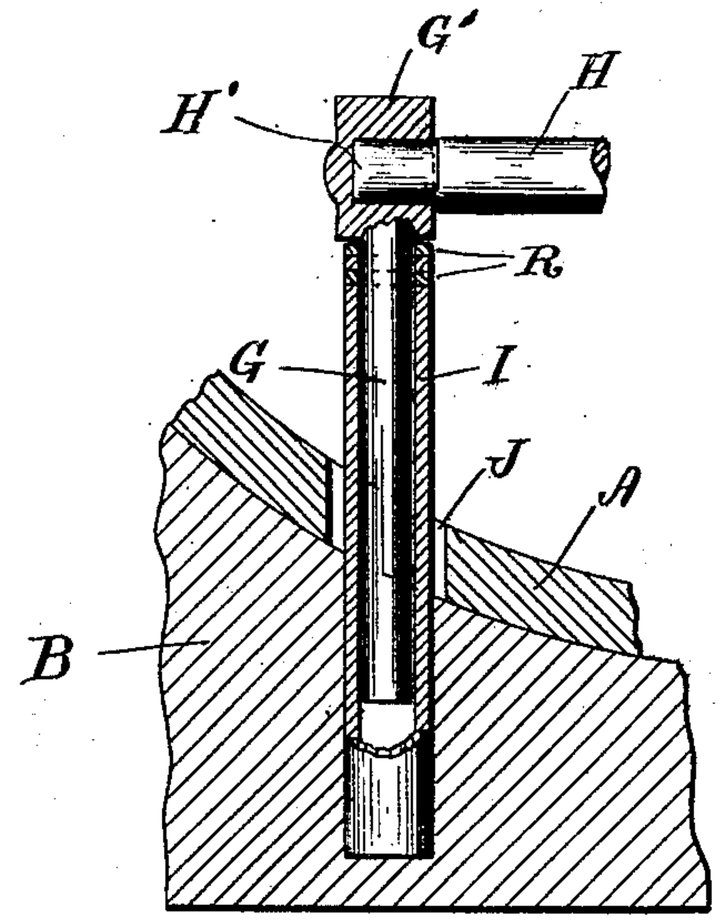

Fig. 2.

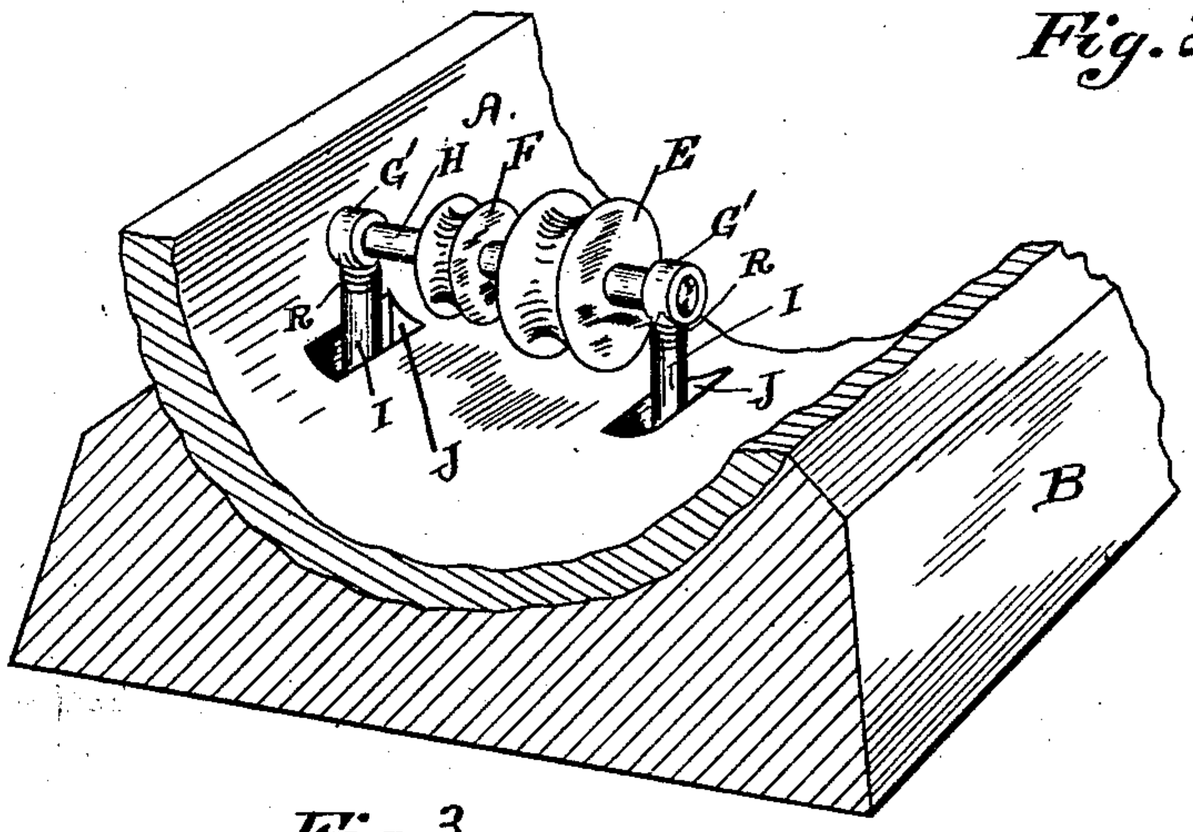

Fig. 3.

Witnesses:
C. M. Hinckley.
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UNITED STATES PATENT OFFICE.

SETH W. HERSEY, OF PORTLAND, MAINE.

STEAM-PIPE CONDUIT.

No. 921,832. Specification of Letters Patent. Patented May 18, 1909.

Application filed February 15, 1909. Serial No. 477,937.

To all whom it may concern:

Be it known that I, SETH W. HERSEY, of Portland, in the county of Cumberland, State of Maine, have invented certain new and useful Improvements in Steam-Pipe Conduits, of which the following is a specification.

My invention relates to underground conduits for carrying steam pipes and particularly to means for supporting the steam pipe within the conduit. These conduits are now commonly made of earthenware drain pipe split longitudinally to form sections which are cemented together at their edges when the conduit is complete to form a tight joint.

The steam pipes are commonly supported upon rollers which enable the pipes to expand and contract longitudinally without bringing strain upon the conduit proper and these rollers have hitherto been supported upon chairs which fitted the interior surface of the conduit or upon standards embedded in a concrete support constructed in a T connection extending vertically downward from the conduit proper. In the first named construction no means are provided to prevent the chairs and rollers from moving out of position by the expansion and contraction of the pipes. The last named construction is expensive and difficult to make as it entails making an offset or T joint in the conduit proper with an extra amount of excavation in the trench and the use of an extra amount of material.

The object of my invention is to construct a suitable support for the rollers which, while having the advantage of a concrete foundation, will do away with the necessity for a T connection in the conduit itself.

According to my invention I support the roller upon vertical standards which extend down through openings in the lower pipe section terminating in the concrete foundation beneath the pipe which thus serves as a support for the pipe and also for the vertical standard and the roller bearing.

I illustrate my invention by means of the accompanying drawing in which—

Figure 1 represents a cross section of the lower half of one of the split pipe sections at one of the roller supports, Fig. 2 is an enlarged detail section the same as Fig. 1 showing the hollow standard in section, and Fig. 3 is a perspective view showing the roller support and adjacent parts.

In the drawing, A represents the lower half of one of the split sections of pipe which make up the conduit proper, B is the continuous concrete support on which the conduit rests in the ditch.

The roller support for the pipe is carried on the upper ends of suitable standards which extend downward through a pair of openings J J formed in the bottom of the conduit pipe and are embedded in the concrete foundation B. As here shown the standards are composed of sections of iron pipe I extending up into the conduit and fitting into each of the standards I is a spindle G having a socket G′ on its upper end. The spindle and socket are capable of vertical adjustment and are held at the proper height for grading the steam pipe by a suitable number of washers R interposed between the upper end of the standards and the sockets G′. The rollers which are here shown as two in number E and F are loosely mounted on a horizontal rod H which has each end H′ reduced in diameter and fitted into one of the sockets G′.

In laying the conduit the section A in which the openings J have previously been formed, is located where support is needed for the steam pipe and it is supported upon the regular concrete foundation B. Before the concrete is set, the standard pipes I are thrust through the openings J and are adjusted carefully in position where they are held permanently after the concrete hardens. The openings J are made somewhat larger than the standards particularly lengthwise of the pipe so as to leave a little latitude for adjustment.

After the concrete has hardened the rollers are put in place slipping the rollers upon the horizontal rods and inserting the ends of the rods in the socket G′. The spindles are now slipped into the hollow standards and a suitable number of washers R interposed to raise the rollers to the required grade. After the steam pipe is laid the upper section of the conduit pipe is cemented to the lower section at the edges and the whole packed with loose asbestos or other suitable non conducting material. It will be seen that by the use of my invention the roller supports can be quickly and accurately placed and when the conduit is complete they form a solid and permanent construction which will not get out of position.

It is evident that the rollers may be sup-

ported on the upper ends of the standards otherwise than herein shown and that other changes may be made in the details of the device as set forth without departing from the spirit of my invention.

I claim;—

1. The herein described conduit for underground steam pipes comprising a split pipe section having a pair of openings in the bottom thereof, a concrete support on which said pipe section rests, a standard extending through each of said openings and embedded in the concrete support and a roller carried by said standards.

2. The herein described conduit for underground steam pipes comprising a split pipe section having a pair of openings in the bottom thereof, a concrete support on which said pipe section rests, a hollow standard extending through each one of said openings and embedded in the concrete support, a spindle fitting each of said hollow standards and a roller carried by said spindle.

3. The herein described conduit for underground steam pipes comprising a split pipe section having a pair of openings in the bottom thereof, a concrete support on which the pipe section rests, a hollow standard extending through each of said openings and embedded in the concrete support, a spindle fitting each of said hollow supports and having a socket on its upper end, a horizontal rod fitting said sockets, a roller on said rod and washers interposed between the upper end of the hollow standard and the socket.

In witness whereof I have hereunto set my hand this 12th day of Feby., 1909.

SETH W. HERSEY.

Witnesses:
S. W. Bates,
E. W. Dennis.