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1,509,484

E. POWELL

COUPLING.

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Fig. 1.

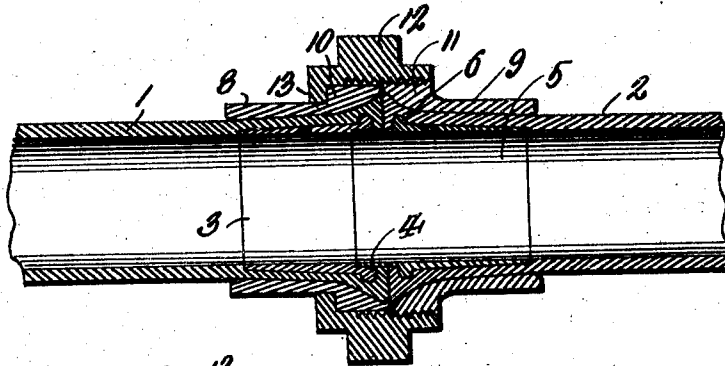


Fig. 2.

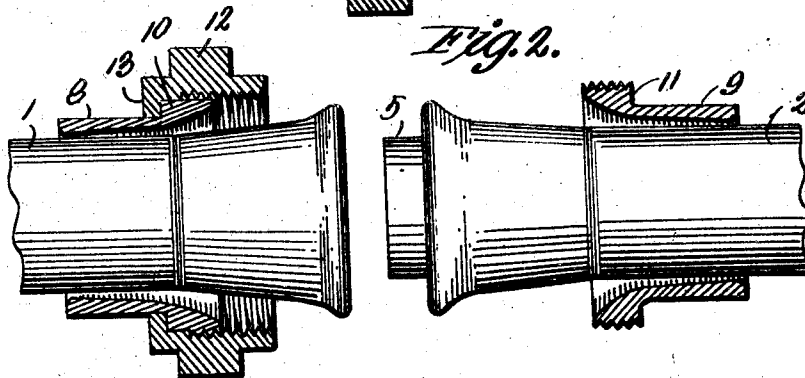
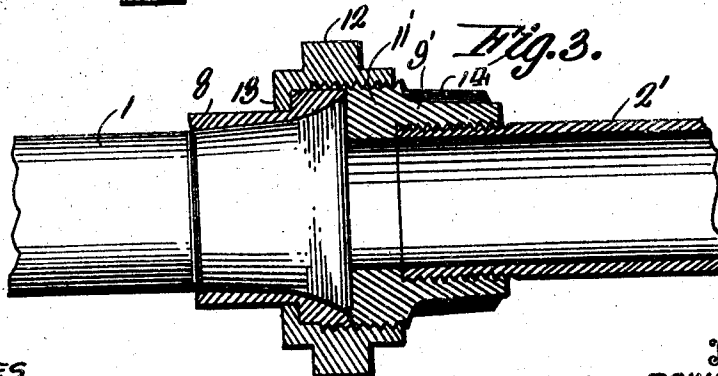


Fig. 3.



WITNESSES

Guy M. Spring
Chas. H. Smith

Inventor
EVAN POWELL

334 *Richard B. Owen* Attorney

UNITED STATES PATENT OFFICE.

EVAN POWELL, OF NEW YORK, N. Y.

COUPLING.

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To all whom it may concern:

Be it known that I, EVAN POWELL, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in a Coupling, of which the following is a specification.

The present invention relates to a coupling and has for its principal object to provide a device for effectively coupling together two pieces of lead pipe or a piece of lead pipe with a piece of iron pipe.

An important object of the invention is to provide a device of this nature which will be simple in construction, reliable in operation, durable, easily manipulated, and well adapted to the purpose for which it is designed.

With the above and numerous other objects in view as will appear as the description progresses, the invention resides in certain novel features of construction, and the combination and arrangement of parts as will be hereinafter more fully described and claimed.

In the drawing—

Figure 1 is a longitudinal section through the coupling assembled,

Figure 2 is a similar view through the coupling disassembled, and

Figure 3 is a longitudinal section through a modified form of the coupling.

Referring to the drawing in detail it will be seen that 1 and 2 represent two pieces of lead pipe which it is desired to place in end to end relation as indicated in Figure 1. My coupling for accomplishing this end consists of an inner sleeve 3 disposed at the end of the pipe 1 and constructed with a bead 4 at its end. The end of the lead pipe 1 is bent over this bead as indicated in Figure 1. Another inner sleeve 5 is disposed at the end of the lead pipe 2 and is provided with a bead 6 adjacent the end thereof and the terminal of the lead pipe 2 is adapted to be bent over this bead 6. The end of the sleeve 5 telescopes in the sleeve 3 as indicated in Figure 1 and the overlapping ends of the pipes 1 and 2 will be in engagement with each other when the device is assembled as indicated in Figure 1. These sleeves 3 and 5 are bracing sleeves supporting the lead pipe at its ends in annular formation.

A pair of outer sleeves 8 and 9 are en-

gaged over the ends of the pipes 1 and 2. The inner ends of the bores of these sleeves 8 and 9 are larger than the remaining portion so as to take care of the enlargement caused by the beads 4 and 6 on the inner sleeves 3 and 5. The sleeve 8 is constructed with the flange 10 and the sleeve 9 with the flange 11 adjacent their inner ends. The flange 11 is provided with threads on its periphery as is shown plainly in Figure 2. A coupling nut 12 is provided with a restricted opening at one end formed by the flange 13 which engages the flange 10 of the outer sleeve 8. The threads of this coupling nut are adapted to engage the threads of the flange 11 of the outer sleeve 9 so that the sleeves may be drawn tightly together at the same time causing the ends of the pipes 1 and 2 to be drawn in firm engagement with each other when the parts are assembled as illustrated in Figure 1.

In the modified form of the invention illustrated in Figure 3 the pipe 1, sleeve 3 (not shown) sleeve 8 and coupling nut 12 are identical with the parts described in conjunction with Figures 1 and 2. The outer sleeve 9' constructed with the flange 11' is threaded for engagement with the coupling nut 12. The bore of this sleeve 9' is threaded for receiving the threads of a pipe 2' and the outer periphery is preferably constructed with ribs 14 so that a wrench or the like may be engaged therewith for screwing the sleeve 9' on the pipe 2'. This modification, of course, is to be used when connecting an iron pipe with a lead pipe, the pipe 1 representing the lead pipe and the pipe 2' representing the iron pipe.

It is thought that the construction and operation of the invention will now be readily understood without a more detailed description thereof and it is desired to point out that numerous changes in the details of construction and in the combination and arrangement of parts can be resorted to without departing from the spirit of the invention as hereinafter claimed.

Having thus described my invention what I claim as new is:—

In a coupling of the class described, a pair of inner sleeves capable of partially telescoping in relation to each other, a bead provided exteriorly on the end of the outer one of the sleeves, a second bead provided exteriorly a distance from the end of the

other sleeve so as to leave a space between the beads when the sleeves are engaged with each other, two sections of pipe formed of malleable material, one section over each sleeve, a pair of outer sleeves capable of being disposed over the section of pipe on the inner sleeves for holding said sections of pipe over the inner sleeves with their ends between the beads, the interior of said outer sleeve being flared adjacent their meeting ends, exterior flanges provided on the meeting ends of said outer sleeve and a coupling nut having a flange extending inwardly at one end for engagement with one of the flanges on the outer sleeve and interiorly threaded for engaging the other flange on the outer sleeve. 15

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

EVAN POWELL.

Witnesses:

JAMES ALLEN,
JOHN J. POWELL.