

No. 730,425.

PATENTED JUNE 9, 1903.

H. J. WESSINGER.

BEARING SLEEVE FOR EXPANSION PIPE JOINTS.

APPLICATION FILED APR. 10, 1903.

NO MODEL.

Fig. 1.

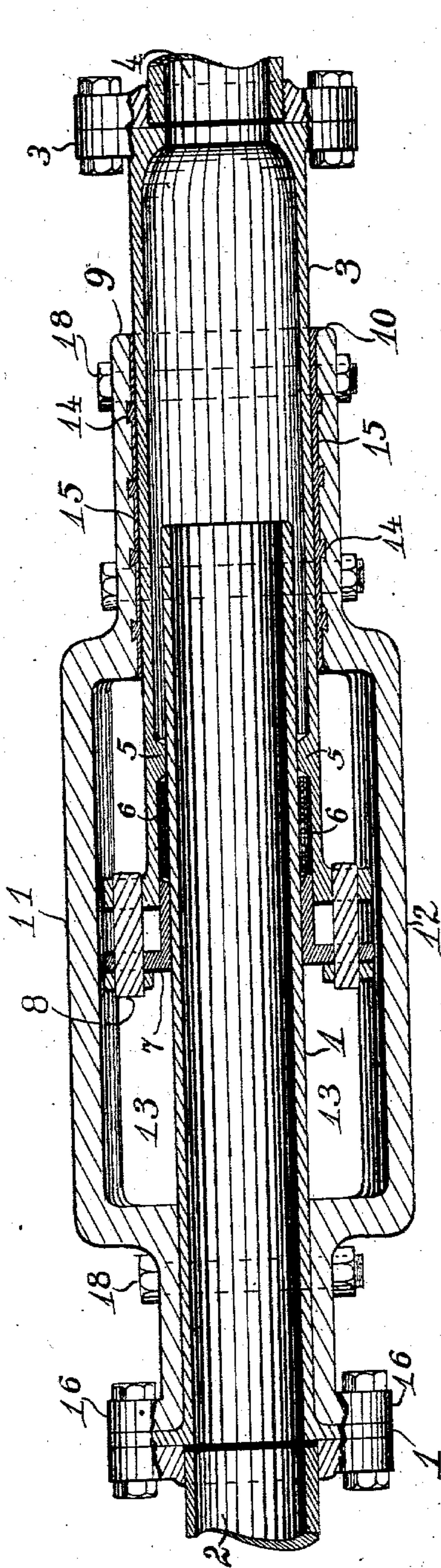
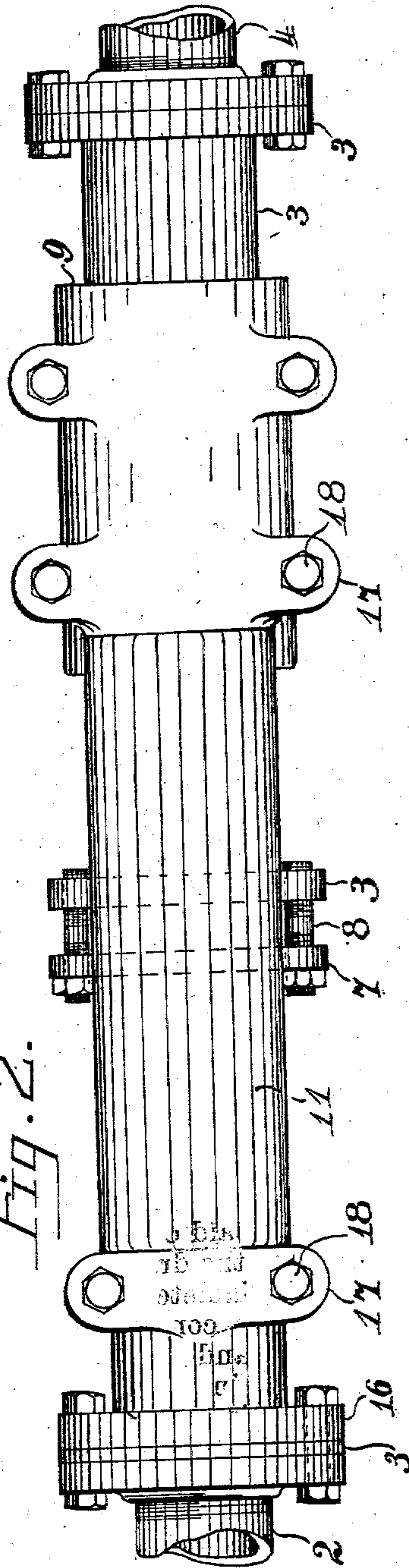


Fig. 2.



WITNESSES:

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HENRY J. WESSINGER, OF DULUTH, MINNESOTA.

BEARING-SLEEVE FOR EXPANSION PIPE-JOINTS.

SPECIFICATION forming part of Letters Patent No. 730,425, dated June 9, 1903.

Application filed April 10, 1903. Serial No. 151,957. (No model.)

To all whom it may concern:

Be it known that I, HENRY J. WESSINGER, a citizen of the United States, residing at Duluth, in the county of St. Louis and State of Minnesota, have invented certain new and useful Improvements in Bearing-Sleeves for Expansion Pipe-Joints; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to bearing-sleeves for expansion or slip joints for pipe-lines, and particularly to such bearing-sleeves as are adapted for use at points where no independent anchorage for the sleeve is obtainable.

It consists, in combination with a pipe member and a packing-sleeve member adapted to extend in part over a part of said pipe member, of a bearing-sleeve member mounted upon and closely grasping said pipe member and secured thereto and adapted to span or arch over the pipe-inclosing end of said packing-sleeve and to slidably grasp said packing-sleeve intermediate of the ends thereof.

It also consists of certain other constructions, combinations, and arrangements of parts, as will be hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a vertical central section through a construction embodying my said invention. Fig. 2 is a plan view of said construction.

As shown in the drawings, a pipe member 1 of uniform diameter is secured at one end to the end of a contiguous section 2 of the main pipe-line and is adapted at its opposite end to extend into a telescoping packing-sleeve 3, which is attached at its opposite end to the end of a contiguous section 4 of the main pipe-line. Said sleeve 3 is for a portion of its length of considerably greater diameter than said pipe member 1 and is provided near its pipe-inclosing end with an internal annular rib 5, against which suitable packing 6 may be shouldered by a gland member 7, positioned at the pipe-inclosing end of said sleeve and extending into said sleeve and adjustably secured thereto by bolts 8 or other suitable means.

I am aware that certain portions of said joint have heretofore been described, and par-

ticularly in Letters Patent of the United States for expansion pipe-joints issued to me on or about the 24th day of March, 1903, and numbered 723,347. My present invention is therefore confined to the construction and application of an improved bearing-sleeve. In certain locations where it is advisable to insert an expansion-joint into a pipe-line it is impracticable to provide a support for a bearing-box such as is described in said Letters Patent, and it is therefore desirable to construct a bearing-sleeve which is adapted to receive its sole direct support from the piping or joint itself and in turn to lend its support thereto. To accomplish this result, I construct a bearing-sleeve of a plural number of parts, as 9 and 10, respectively, adapted when fitted together to form a longitudinally-divided sleeve cylindrical at each of its ends and of greater diameter at one end than at the other. The central portion of said sleeve is considerably larger in one diameter than either of said ends, whereby it is adapted to arch over said packing-gland. Such central portion is also preferably constructed in the form of longitudinally-arranged ribs 11 and 12, respectively, connecting the opposite ends of said bearing-sleeve. The sides of said sleeve between said ribs are preferably left open, as at 13, through which openings the adjustable fastenings of said gland may be reached without taking the sleeve apart. Annular dovetail grooves 14 are preferably formed in the interior face of the larger end of said bearing-sleeve to hold Babbitt metal 15, interposed between said portion and the packing-sleeve, upon which packing-sleeve that end of said bearing-sleeve is slidably mounted. The opposite end of said bearing-sleeve is preferably provided with an apertured attaching-flange 16 to hold bolts by which it is secured to the flanges of said pipe members 1 and 2, which pipe member 1 said bearing-sleeve is adapted at its smaller end to closely grasp. A suitable number of apertured lugs, as at 17, are formed upon each of the separate portions of said bearing-sleeve to hold bolts, as at 18, for securing said parts together.

Having now described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In an expansion-joint for piping, the

combination with a pipe-section and a packing-sleeve section, telescoping over said pipe-section, of a bearing-sleeve mounted upon and secured to said pipe-section and arching
5 over the pipe-inclosing end of said packing-sleeve and slidably grasping said packing-sleeve intermediate of its ends, substantially as described.

2. A bearing-sleeve comprising a central
10 portion of greater internal diameter in one direction than the internal diameter of either

of the end portions, the internal diameter of one of said end portions being greater than the internal diameter of the opposite end portion, substantially as described.

In testimony whereof I have hereunto
signed my name in presence of two witnesses.

HENRY J. WESSINGER.

Witnesses:

W. E. WESSINGER,
JAMES T. WATSON.