

(No Model.)

G. RUSSELL & R. GORDON.
Pipe Coupling.

No. 235,384.

Patented Dec. 14, 1880.

Fig. 1.

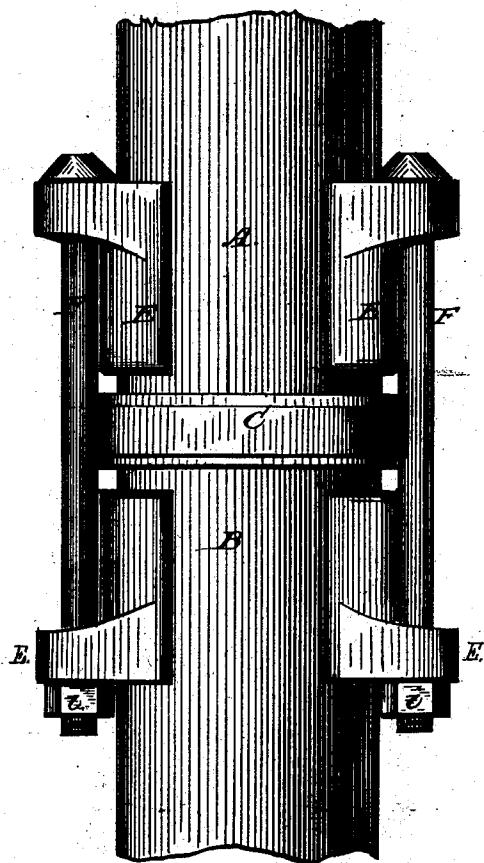


Fig. 2.

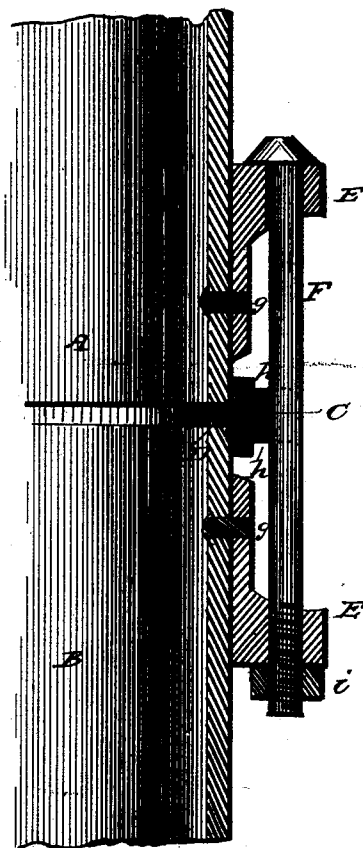


Fig. 3.

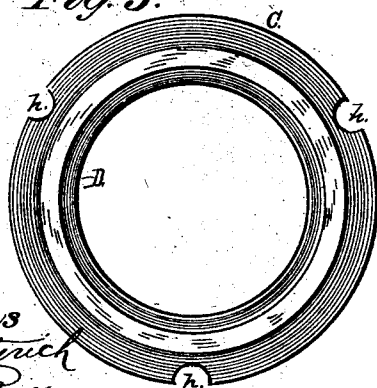


Fig. 4.



Witnesses
Fred. G. Dietrich
Albert W. Krause

Inventor
Robert Gordon,
George Russell,
By J. J. Johnston
their attorney

UNITED STATES PATENT OFFICE.

GEORGE RUSSELL AND ROBERT GORDON, OF McKEESPORT, PENNSYLVANIA.

PIPE-COUPLING.

SPECIFICATION forming part of Letters Patent No. 235,384, dated December 14, 1880.

Application filed May 4, 1880. (No model.)

To all whom it may concern:

Be it known that we, GEORGE RUSSELL and ROBERT GORDON, both of McKeesport, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Coupling for Pipes; and we do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Our invention relates to an improvement in couplings for pipes; and it consists in a novel construction and combination of parts, all as will be hereinafter fully described, and specifically pointed out in the claim.

To enable others skilled in the art with which our invention is most nearly connected to make and use it, we will proceed to describe its construction and operation.

In the accompanying drawings, which form part of our specification, Figure 1 is a side elevation of our improvement in coupling for pipes. Fig. 2 is a vertical and longitudinal section of the same. Fig. 3 is an end view of the coupling-ring. Fig. 4 is a transverse section of the same.

In the accompanying drawings, A and B represent two sections of pipe, near the ends of which are secured lugs E by means of rivets *g*. In these lugs are openings for the reception of the screw-bolts F. The end of the pipe-sections A and B are placed in a ring, C, which has an inward-projecting flange, D, against which the ends of the pipe-sections A and B are caused to impinge through the medium of the screw-bolts F and screw-nuts *i*. In the periphery of the ring or sleeve C are recesses *h*, in which the screw-bolts rest, as shown in Figs. 1 and 2. By means of the recesses *h*, in which said bolts rest when the parts are secured in position, the ring is prevented from moving in any direction. The

lugs E may be secured to the pipe-sections A and B by brazing them thereto, if so desired; but securing them thereto by means of rivets, as shown in Fig. 2, will be found to be the cheapest, and can be done with great facility.

In the operation of coupling the different sections of pipe together the operator places the ends of the sections in the ring or sleeve C. He then places the screw-bolts F in the openings of the lugs E, with their sides resting in the recesses of the ring or sleeve C. He then screws on the bolts F the screw-nuts *i*, and by means of said screw-nuts, bolts, and lugs draws the two sections of pipe toward each other and until their ends impinge firmly against the inward-projecting flange D of the ring or sleeve C, thereby forming a perfectly close-packed and complete coupling for the two sections of pipe.

We are aware that sections of a pipe having exterior lugs and screw-bolts for securing the sections together, and also a ring or sleeve having an inward-projecting flange for an abutment for the ends of the sections of pipe are old, and such we do not wish to be understood as claiming, broadly, as of our invention.

Having thus described our improvement, what we claim as our invention is—

In a coupling for pipe, the combination, with the sections A B, provided with the lugs E and the screw-bolts F, of the ring or sleeve C, having inward-projecting flange D, and exterior recesses, *h*, for the reception of said screw-bolts, the several parts constructed and relatively arranged as herein shown and described.

ROBERT GORDON.
GEO. RUSSELL.

Witnesses:

JOSEPH A. STONE,
ROBERT BAILIE.