(No Model.)

2 Sheets—Sheet 1.

A. E. LOTSTROM.

STOVEPIPE COUPLING.

No. 601,444. Patented Mar. 29, 1898.

FIG. 2.

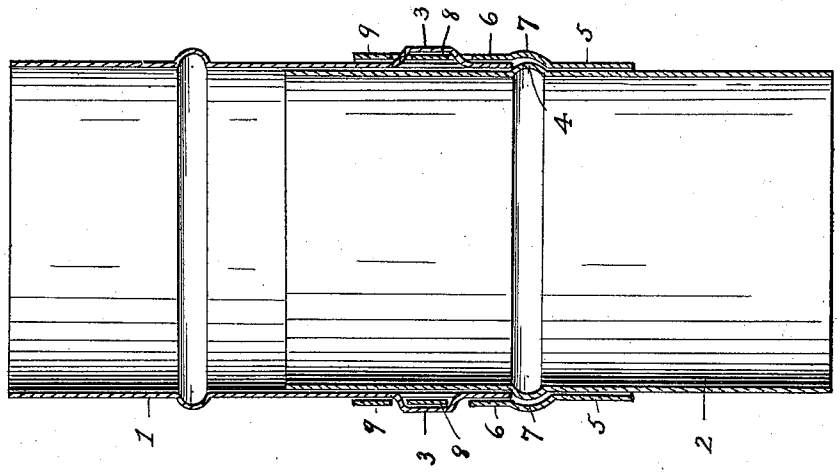
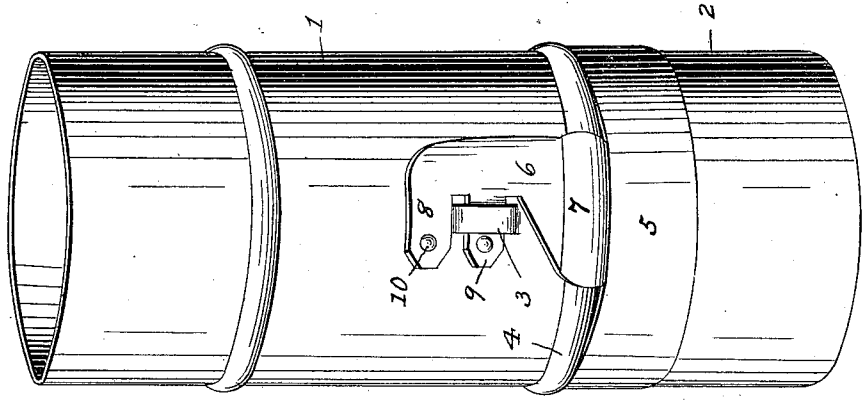


FIG. 1.



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(No Model.) 2 Sheets—Sheet 2.

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FIG. 3.

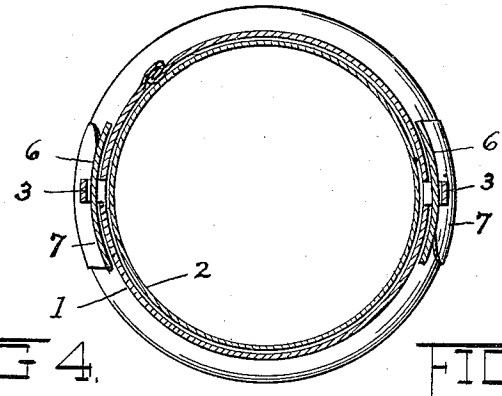
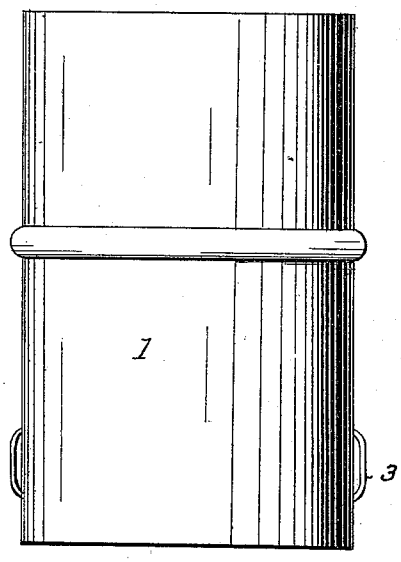
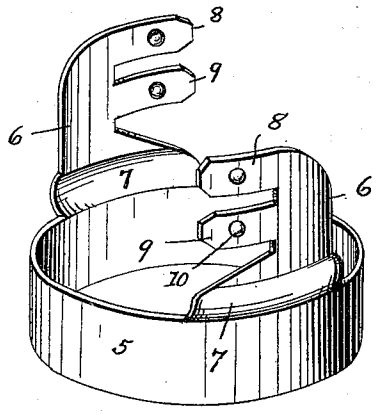


FIG. 4.

FIG. 5.





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UNITED STATES PATENT OFFICE.

ALEXANDER E. LOTSTROM, OF SPOKANE, WASHINGTON.

STOVEPIPE-COUPLING.

SPECIFICATION forming part of Letters Patent No. 601,444, dated March 29, 1898.

Application filed November 4, 1897. Serial No. 657,397. (No model.)

To all whom it may concern:

Be it known that I, ALEXANDER E. LOTSTROM, a citizen of the United States, residing at Spokane, in the county of Spokane and State of Washington, have invented certain new and useful Improvements in Stovepipe-Couplings; 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 has relation to improvements in stovepipe-couplers; and its object is to provide a simple and effective coupling device for positively uniting the meeting ends of adjoining stovepipe-sections.

To this end the invention consists in a device of this character embodying certain novel features of construction and combination of parts, as will be hereinafter more fully described and claimed.

In the accompanying drawings, Figure 1 is a perspective view showing two stovepipe-sections united by my improved coupler. Fig. 2 is a longitudinal section of same; Fig. 3, a transverse section; Fig. 4, a side view of one of the pipe-sections, and Fig. 5 a perspective view of the coupler detached.

Referring now more particularly to the drawings, 1 2 represent the two adjoining stovepipe-sections, which are made, as usual, of different diameters in order that the end of one section may closely fit within the meeting end of the other section. In accordance with my invention the larger section 1 is provided at diametrically opposite sides with keeper-loops 3, formed by slitting the body of said section and displacing the metal outwardly, as shown, and the smaller section 2 is provided with an annular retaining-bead 4. The coupling device for holding said sections united against displacement comprises a collar or band 5, fitted to slide longitudinally on the pipe-section 2 and provided at one of its edges with integral oppositely-disposed plates 6. These plates are formed at their lower ends contiguous to the collar with semicircular retaining bends or recesses 7, which are adapted to engage the retaining-bead 4 on the pipe-section 2, and thereby hold the collar in proper position and prevent it from sliding on said section. Each plate is also formed with a pair of locking-tongues 8 9, having stop-teats or bosses 10, one tongue being arranged below the other, and the tongues on one plate project in the reverse direction to the tongues on the other plate, as shown.

In coupling and uncoupling the pipe-sections the band 5 is partially rotated on the section 2 to bring either the tongues 8 or the tongues 9 into or out of engagement with the keepers 3. When the tongues 9 are engaged with the keepers, as shown in Fig. 1, the tongues 8 bear against the upper edges of the keepers and reinforce the tongues 9 against longitudinal strain in one direction, and, on the other hand, when the tongues 8 are engaged with the keepers the tongues 9 bear against the lower edges of said keepers and reinforce tongues 8. The function of the tongues 8 is to permit of the sections being adjusted and held coupled to lengthen the pipe when, as frequently happens, the pipe is too short for the purpose intended and yet too long to permit of an additional section being inserted. When this is the case, the pipe may be lengthened by disengaging tongues 9 from the keepers 3, withdrawing a portion of the end of section 2 from section 1, and then engaging tongues 8 with the keepers. By this means the sections may be readily and conveniently lengthened and held rigidly connected, as the retaining-recesses 7 will prevent the section 2 from moving in either direction. When the tongues 9 are engaged with the keepers, the bead 4 is not only retained in the recesses 7, but the contiguous edge of collar 5 bears against said bead and holds the two sections positively coupled. The bosses 10 on the tongues are semihemispherical in shape and are formed by indenting the tongues. They are adapted to rub or bind firmly by frictional contact against the inner faces of the keepers, and thus hold the tongues in positive engagement therewith. By this construction all liability of accidental disengagement of the coupling-collar is avoided, while the tongues may be readily engaged or disengaged whenever desired by forcibly moving the collar.

Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent, is—

1. In a stovepipe-coupling, the combination

of two interlocking pipe-sections, one provided with keepers and the other with an annular retaining-bead, and a flat coupling collar or band encompassing said latter section and provided with a retaining-recess adapted to receive said bead and locking-tongues adapted to engage said keepers, substantially as described.

2. In stovepipe-couplings, the combination of the pipe-section 1 having keepers 3, the section 2 having a circumferential retaining-bead 4, and a coupling device comprising a collar or band 5 encompassing the section 2 and provided with the oppositely-disposed plates 6, each having a retaining-base recess 7 to receive the bead 4 and a pair of locking-tongues 8 9 provided with bosses 10, substantially as described.

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

ALEXANDER E. LOTSTROM.

Witnesses:

HORACE KIMBALL,

JAS. C. CUNNINGHAM.