M. L. McGUIRE.

COLLAR.

APPLICATION FILED NOV. 16, 1906.

**946,980.** **Patented Jan. 18, 1910.**

Fig. 1.

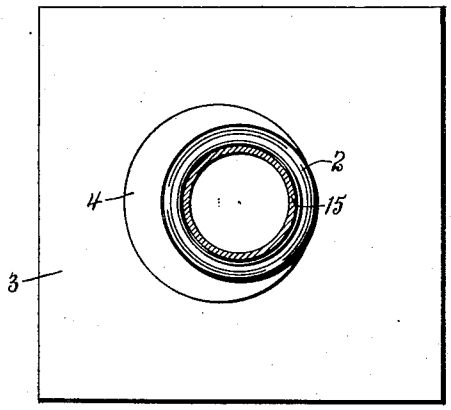



Fig. 2.

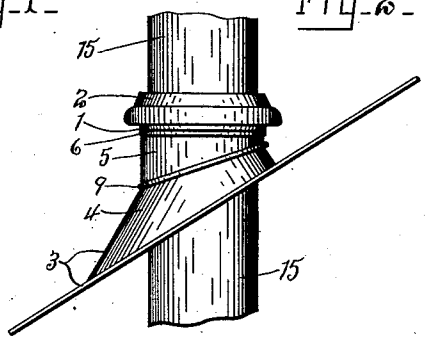



Fig. 3.

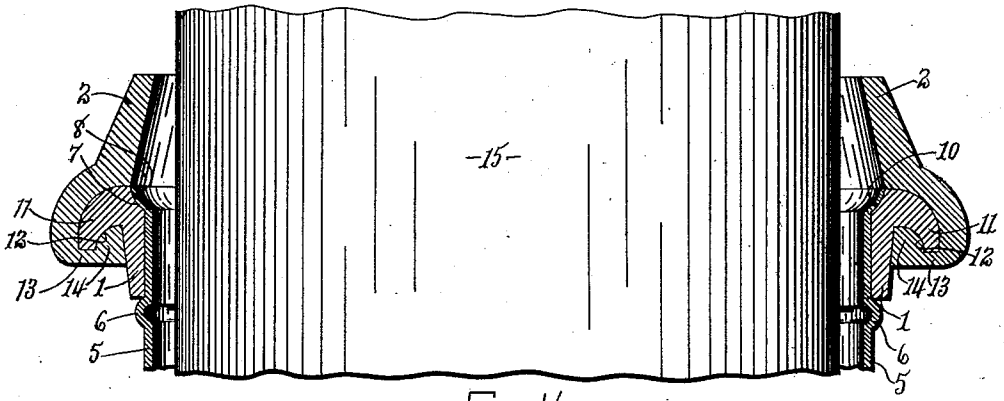
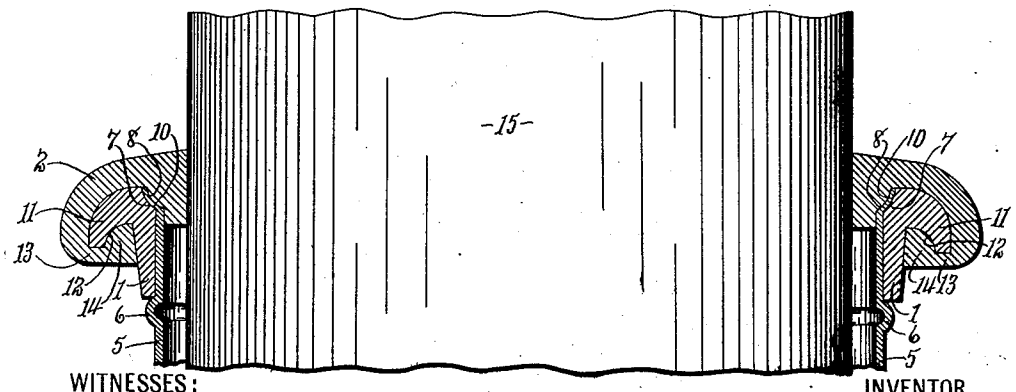



Fig. 4.




WITNESSES:

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# UNITED STATES PATENT OFFICE.

MICHAEL L. McGUIRE, OF SYRACUSE, NEW YORK.

## COLLAR.

946,980. Specification of Letters Patent. Patented Jan. 18, 1910.

Application filed November 16, 1906. Serial No. 343,719.

*To all whom it may concern:*

Be it known that I, MICHAEL L. McGUIRE, of Syracuse, in the county of Onondaga and State of New York, have invented a certain new and useful Collar, of which the following is a specification.

My invention relates to a collar of the class forming the subject-matter of my prior patent No. 686,323, and has for its object the production of means, which augments the strength and durability of the upper end of the collar, and facilitates the making of a tight joint around the pipe passing therethrough, and to this end the invention consists in the combinations and structures hereinafter set forth and claimed.

In describing this invention, reference is had to the accompanying drawing, in which like characters designate corresponding parts in all the views.

Figures 1 and 2 are, respectively, plan and elevation of my collar, shown as encircling a piece of pipe. Fig. 3 is an enlarged view of parts seen in the preceding figures, the illustrated portion of the collar being in section. Fig. 4 is a view similar to Fig. 3, the upper part of the calking ring being bent inwardly into contact with the pipe.

This collar consists of a main shell, a sleeve 1, and a calking ring 2. Said main shell of the collar comprises a base 3 having an upturned tubular part 4, and a nipple 5 having its lower end adjustably mounted on the tubular part 4, and its upper end provided with a peripheral shoulder 6 spaced apart from the top edge of said nipple, such top edge being deflected outwardly forming a second peripheral shoulder 7 and also a groove 8 in the internal face of the nipple. The base 3 and nipple 5 are connected together by a joint 9 arranged at an angle thereto, and constructed and operating in the same manner as the similar joint set forth in my aforesaid patent, and either the base, or the nipple, may be revoluble about the axis of such joint for adjusting the collar relatively to the pitch of the roof to be provided therewith.

The sleeve 1 encircles and reinforces the upper end of the nipple 5 below the upper edge thereof and is prevented from movement endwise thereon in reverse directions by the shoulders 6 and 7, the lower edge of the sleeve being engaged with the shoulder 6, and the upper part of such sleeve having a groove 10 formed therein which receives the outwardly-deflected top edge of the nipple 5. Said sleeve 1 is provided with a peripheral shoulder 11 which decreases upwardly in diameter, and is formed with a groove 12 in its lower surface. In assembling the nipple 5 and the sleeve 1, said sleeve is preferably placed upon the nipple before the top edge of said nipple is deflected outwardly, and when the sleeve is in position on the nipple with its lower edge in engagement with the shoulder 6, the top edge of the nipple is rolled outwardly into the groove 10, thus tightly binding the nipple and the sleeve together, so that neither is capable of movement in any direction relatively to the other.

Preferably, the calking ring 2 closely fits, and is fixed to, the periphery and upper and lower surfaces of the shoulder 11 and projects beyond the top edge of the nipple 5. The lower part of the calking ring is provided with a shoulder 13 arranged beneath the shoulder 11, and fixed to the lower surface of the shoulder 11, and to a portion of the periphery of the sleeve beneath said shoulder 11, and is formed with a rib 14 which enters the groove 12; and the upper part of such calking ring projects above the main shell of the collar and the sleeve 1, and decreases in diameter toward its top for facilitating inward bending thereof around the pipe 15 passed through the collar. I preferably form the calking ring of suitable material, as lead, and cast the same upon the sleeve 1.

In the use of my collar, the upper part of the calking ring is bent downwardly and inwardly against the pipe 15, and forms a tight joint between the collar and the pipe.

To those skilled in the art, it will be understood that the sleeve 1 adds greatly to the rigidity and durability of the upper end of my collar, and also facilitates the practical securement of the calking ring to such collar, and that the described construction of the upper end of the nipple and the sleeve permits of the securement of the sleeve to the nipple at minimum expense and in a substantial manner, which also affords means, as the groove 8, for receiving the bent over upper part of the calking ring.

What I claim is:—

1. In a collar, the combination with a main shell provided with peripheral shoulders spaced apart, of a sleeve encircling the main shell between the shoulders, the sleeve

being secured to the main shell by said shoulders, and a calking ring carried by the sleeve, the calking ring and sleeve having interlocking parts, substantially as and for the purpose specified.

2. In a collar, the combination with a main shell; of a sleeve encircling a portion of the main shell and provided with a peripheral shoulder formed with a groove in its lower surface, and a calking ring fixed to the periphery of said shoulder, and having its lower part provided with a shoulder fixed to the first-mentioned shoulder and formed with a rib arranged in said groove, the upper part of the calking ring projecting above the main shell and the sleeve, substantially as and for the purpose set forth.

In testimony whereof, I have hereunto signed my name in the presence of two attesting witnesses, at Syracuse, in the county of Onondaga, in the State of New York, this 9th day of November, 1906.

MICHAEL L. McGUIRE.

Witnesses:
S. DAVIS,
R. ARONSON.