(No Model.)

C. F. MEILINK & E. H. WADSWORTH.

HOSE COUPLING.

No. 458,636. Patented Sept. 1, 1891.

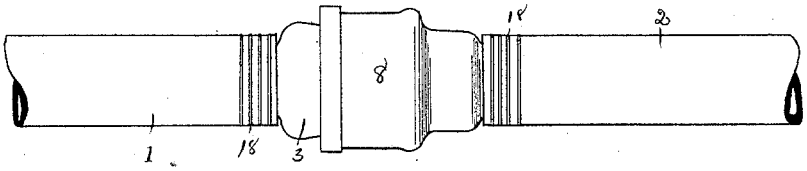

Fig. 1.

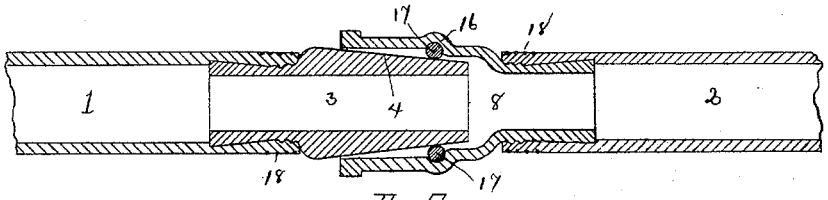

Fig. 2.

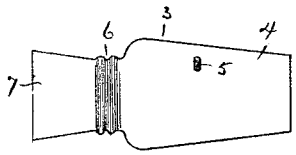

Fig. 3.

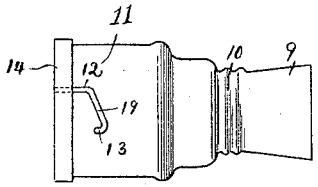

Fig. 4.

WITNESSES.

Correce J. Webster.

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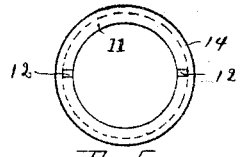

Fig. 5.

INVENTORS.

Charles F. Meilink & Edwin H. Wadsworth

By Myers & Webster, Attys.

UNITED STATES PATENT OFFICE.

CHARLES F. MEILINK AND EDWIN H. WADSWORTH, OF TOLEDO, OHIO.

HOSE-COUPLING.

SPECIFICATION forming part of Letters Patent No. 458,636, dated September 1, 1891.

Application filed May 31, 1890. Serial No. 353,722. (No model.)

To all whom it may concern:

Be it known that we, CHARLES F. MEILINK and EDWIN H. WADSWORTH, of Toledo, in the county of Lucas and State of Ohio, have invented certain new and useful Improvements in Hose-Couplings; and we do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form part of this specification.

This invention relates to an improvement in hose-couplings.

The object is to produce a coupling which shall be of such construction that when the parts constituting the same are in engagement with each other an absolutely air-tight joint will be formed without the employment of the ordinary screw-threaded connection for this purpose.

A further object of the invention is to produce a hose-coupling which shall be simple of construction, efficient and durable in use, and which may be manufactured and sold at a nominal sum.

With these objects in view the invention consists in providing a nozzle having a series of corrugations and a flaring end adapted to engage the pipe and tapered end adapted to engage a socket secured to the other section of pipe.

The invention further consists in providing a nozzle having a tapered end carrying pins or projections, a socket carrying a gasket adapted to engage the nozzle and having bayonet-slots adapted to engage with the pins on the nozzle, whereby the two parts may be securely locked together.

The invention finally consists in the various novel details of construction of a hose-coupling, as will be hereinafter fully described in the specification, illustrated in the drawings, and more particularly pointed out in the claims.

In the accompanying drawings, forming part of this specification, and in which like numerals of reference indicate corresponding parts, we have illustrated one form of hose-coupling embodying the essential features of our invention, although the same may be carried into effect in other ways without in the least departing from the spirit thereof.

In the drawings, Figure 1 is an elevation showing two sections of hose connected by our improved coupling. Fig. 2 is a longitudinal sectional view showing the internal construction of the device. Fig. 3 is a detached detail view of the nozzle. Fig. 4 is a similar view of the socket, and Fig. 5 is an end view of the socket.

Referring to the drawings, 1 and 2 designate two sections of hose. Within the section 1 is secured the nozzle 3, one end of which is tapered, as shown at 4, and carries two or more pins 5, only one being shown in this instance, while the opposite end is reduced and provided with a series of corrugations 6 and a flaring end 7, as shown. Within the section 2 is located the socket 8, one portion of which is also reduced and provided with a flaring end 9, having a series of corrugations 10 at its base, while the opposite end 11 is of a diameter sufficient to accommodate the tapered portion 4 of the nozzle. Within the portion 11 is formed an angular slot 12, terminating in a semicircular end 13, which is adapted to engage with the pins 5 in the nozzle to hold the two parts in locked engagement when in the position shown in Fig. 1. Upon the outer end of the said portion 11 is formed a strengthening-collar 14, which may be either cast integral with the said portion or secured thereon by solder, and beneath this collar is a slot 12. The interior of the socket is provided with a peripheral recess 16, adapted to be engaged by a rubber gasket 17, which gasket, when the two parts are in locked engagement with one another, forms an air-tight joint.

The hose may be held upon the flaring portions of the nozzle and socket by any suitable means, and in this instance it is shown secured by a wire 18.

Having thus fully described our device, we will explain the manner of its operation. When a joint is to be made between two sections of pipe, the nozzle and socket are first secured therein by any suitable means. The gasket is then placed within the recess 16 and the nozzle is inserted within the gasket, the pins engaging with the slots 12. The nozzle is then forced in until the pins contact with

the inclined portion 19 of the slots, when by giving the respective parts a partial rotation in opposite directions they will be drawn closely together, and as soon as the pins 5 enter the semicircular recess 13 the two parts will be locked securely together.

It will be readily seen from the foregoing description that although this hose-coupling is exceedingly simple of construction it will be highly efficient and durable in use and cheap of production. Moreover, by having the ends of the two parts of the coupling made flaring all danger of the pipe being drawn from the coupling when the supply of water is cut off at the nozzle proper will be overcome.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In a hose-coupling, a socket having bayonet-like slots, the lateral limbs of which are at an obtuse angle to the longitudinal limbs and terminate in semicircular recesses, and a gasket fitted in said socket, in combination with a nozzle having a tapered end adapted to engage the said gasket, and pins or projections for engaging the said slots and recesses to draw and to lock the parts together.

2. In a hose-coupling, a socket having a bore in one end of uniform diameter, an annular recess at the inner end of the bore, and a gasket in said recess, in combination with a nozzle having a tapered end designed to engage the said gasket.

In testimony that we claim the foregoing as our own we hereby affix our signatures in presence of two witnesses.

CHARLES F. MEILINK.
EDWIN H. WADSWORTH.

Witnesses:
O. S. BRUMBACK,
R. M. ELLIOTT.