Jan. 20, 1931. K. MUELLER 1,789,877

CONCRETE PIPE CONSTRUCTION

Filed Nov. 19, 1928

Fig. 1.

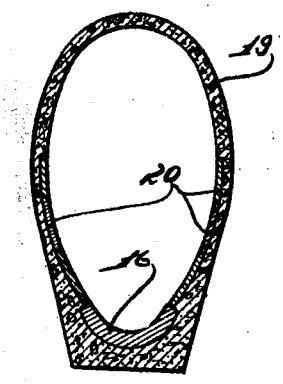
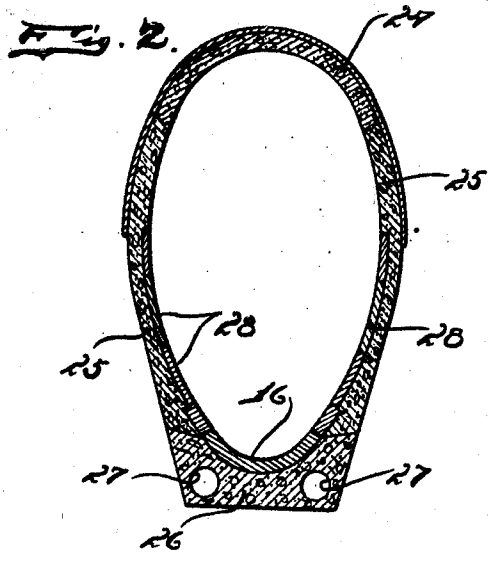


Fig. 2.



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UNITED STATES PATENT OFFICE

KARL MUELLER, OF DETROIT, MICHIGAN

CONCRETE-PIPE CONSTRUCTION

Application filed November 19, 1928. Serial No. 320,382.

My invention relates to a new and useful improvement in a concrete pipe construction adapted for use as conduits of various kinds such as sewage pipes.

It is an object of the present invention to provide such conduits from plastic material such as concrete or the like arranged and constructed in such a manner that they may be very easily and quickly installed and may be durable and efficient in use.

Another object of the invention is the provision of conduits of this kind formed from plastic material and reinforced at those portions where they will be most likely to permit the escape of moisture because of their porous nature.

Another object of the invention is the provision in conduits of this class of a structure whereby the adjacent ends may be easily and quickly sealed together.

Other objects will appear hereinafter.

The invention consists in the combination and arrangement of parts hereinafter described and claimed.

The invention will be best understood from a reference to the accompanying drawing which forms a part of this specification and in which,

Fig. 1 is a cross sectional view of a further modified form of the invention.

Fig. 2 is a cross sectional view of a further modified form of the invention.

In the form shown in Fig. 1, the conduit or pipe is formed from plastic material and is provided with a flat base. Engaging in an interior recess is a non-porous layer 16, this reinforcement or layer 16 being formed from tile or the like. A plurality of plates 20 are positioned on the inner surface of the pipe 19 and engage the non-porous member 16. The plates 20 are also non-porous so as to render a larger portion of the pipes 19 impervious to any seepage than is the case where the plate 16 alone is used.

In Fig. 2 the conduit or pipe is formed from a pair of sections 24 and 25, the edges of the sections 25 having grooves in which engage the edges of the sections 24. This style of conduit serves admirably for encasing cables and the like. The base 26 is provided with drain passages 27 and positioned in engagement with the inner surface of the section 25 are the non-porous plates 16 and 28.

While I have illustrated and described the preferred form of my invention I do not wish to limit myself to the precise details of structure shown but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:

1. A concrete pipe construction comprising a tubular main body having a comparatively deep recess formed on one side and extending longitudinally thereof and communicating with shallower recesses at opposite sides; an impervious plate in said comparatively deep recess; and an impervious plate positioned in each of said shallower recesses.

2. A concrete pipe construction comprising a tubular main body having a comparatively deep recess formed on one side and extending longitudinally thereof and communicating with shallower recesses at opposite sides; an impervious plate in said comparatively deep recess; and an impervious plate positioned in each of said shallow recesses; and each resting with its lower edge upon the upper edge of said first mentioned impervious plate.

3. A concrete pipe construction comprising a tubular main body having a comparatively deep recess formed on one side and extending longitudinally thereof and communicating with shallower recesses at opposite sides; an impervious plate in said comparatively deep recess; and an impervious plate positioned in each of said shallower recesses, and each resting with its lower edge upon the upper edge of said first mentioned impervious plate, the inner surface of said main body being uninterrupted and smooth.

In testimony whereof I have signed the foregoing specification.

KARL MUELLER.