Jan. 27, 1931. H. L. ROGERS 1,790,075

RESERVOIR, SWIMMING POOL, AND LIKE STRUCTURE, AND PREFORMED PACKING FOR SAME

Filed June 20, 1927

Fig. 1.

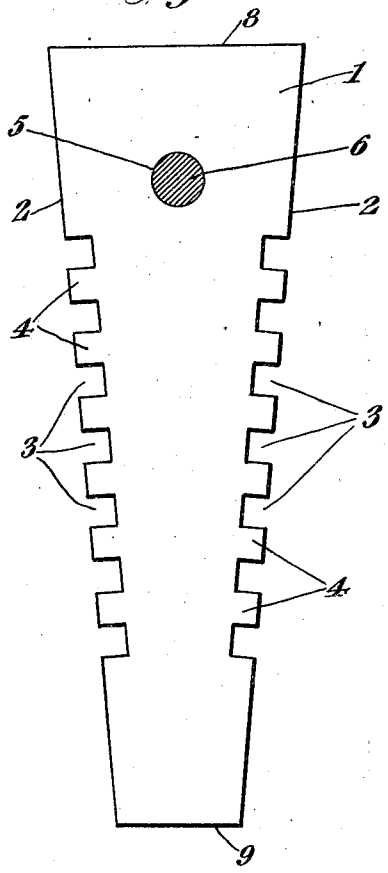
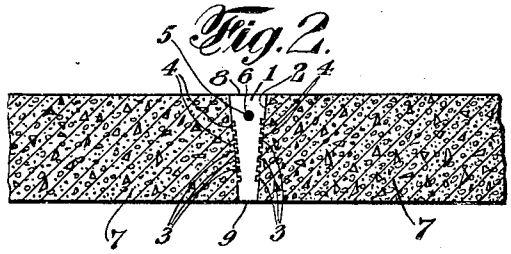



Fig. 2.




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# UNITED STATES PATENT OFFICE

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## RESERVOIR, SWIMMING POOL, AND LIKE STRUCTURE, AND PREFORMED PACKING FOR SAME

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My invention relates to reservoirs or like construction and to preformed packing adapted for use therein. I have found that in the construction of reservoirs, swimming pools and similar constructions adapted for holding water, that I can prevent any leakage between the adjacent slabs by providing a packing of a plastic like material preformed to a strip having opposite sides arranged at an angle to each other so as to form a wedge shaped strip and providing these sides with means adapted to interlock with the adjacent structure.

In the drawings, Fig. 1 shows a cross section of my preformed packing and Fig. 2 is a cross section of a reservoir, swimming pool or other construction showing my preformed packing arranged between adjacent blocks of concrete. In the drawings, 1 is my packing which as shown has sides 2, 2 arranged at an angle to each other so as to provide a wedge like form to the packing. This packing is made in any desired length. The sides 2, 2 are preferably broken as shown by longitudinal grooves 3, 3 separated by projections 4, 4. This packing is made so that it will be wider at the top as shown than at the base. 5 is an opening which may, if desired, be placed in the packing for the purpose of reducing its weight or a reinforcing member 6 may be passed through the opening. This opening 5 and reinforcing member 6 however, are not essential but may be in some conditions desirable. The grooves 3, 3 may be of any desired contour, but I prefer to have them extend longitudinally along each side of the packing. This is likewise true of the projections or tongues 4. If desired, the projections or tongues 4 could extend beyond the line of the sides of the top and base of the packing, or they could be arranged at an angle to the sides other than as shown. In Fig. 2 I have shown a section of a reservoir, swimming pool or similar construction in which my packing is shown between two adjacent slabs 7 of concrete. I prefer to install my packing by placing the packing 1 in position and pouring the concrete 7 on each side of it until the desired quantity has been poured. As will be seen this permits the concrete to enter the spaces 3 between the tongues 4 and form on the concrete corresponding tongues or projections extending into the spaces 3 between the tongues 4 of the packing so as to interlock the packing 1 with the concrete blocks 7.

In installing my packing 1, I do it so that the top or head 8 which has a greater area than the lower side 9 of the base will be substantially on a line with the corresponding surface of the upper side of the concrete block 7. In this construction it will be seen that the spaces 3 and the projections 4 arranged longitudinally of the packing 1 form with the similar spaces and projections on the concrete obstructions to the passage or seepage of water or moisture and in addition the pressure of the water on the top of the packing 8 tends to press same down firmly against the adjacent portions of the concrete block 7 and likewise prevent passage or seepage of water between the packing 1 and the concrete blocks 7.

My packing is preferably made of a bituminous material containing a fibrous filler, although other fillers could if desired be used. It will be seen that the longitudinal spaces and projections or corrugations on the sides of my packing form numerous obstructions to the passage or seepage of water and likewise form many points of contact with the concrete which will become sealed by virtue of the adhesion of the concrete to the packing 1. This adhesion may be facilitated by the application to the sides of the packing 1 of any suitable bituminous or other adhesive if desired.

Claims:

1. A preformed packing for use between slabs of concrete or the like to form a waterproof expansion joint, said packing comprising a body of plastic water-proof material having sides arranged at an angle to each other and portions of said sides arranged in alternate tongues and grooves having sides lying in a plane substantially parallel to the direction of expansion and contraction of the slabs to and away from the packing.

2. In a reservoir wall or like construction,

a preformed packing composed of a strip of plastic water-proof material having sides arranged at an angle to each other so that the edge exposed to the water side of the structure is of greater area than the opposite edge and means on the side of said preformed packing adapted to form keys for interlocking with adjacent construction.

3. A preformed packing for use between two bodies having relative movement to and away from each other, comprising a strip of bituminous material and a suitable filler, said packing strip having sides of greater surface area than the edges, said sides being arranged at an angle to each other so that the exposed edge of said packing strip is of greater area than the opposite edge, a portion of each side of said packing being composed of areas in substantially the same plane and other portions of said sides composed of areas of appreciable extent arranged in different planes extending generally in the direction of said relative movement so as to provide locking means for interlocking with the adjacent structure through surfaces engaging along lines parallel to the direction of said relative movement.

4. A preformed packing for use between two bodies having relative movement to and away from each other, comprising a strip of plastic water-proof material having sides arranged at an angle to each other so that the exposed edge of said packing strip is of greater area than the opposite edge and means on the side of said preformed packing adapted to form a key for interlocking with adjacent construction.

In testimony whereof, I have signed my name to this specification.

HOMER L. ROGERS.