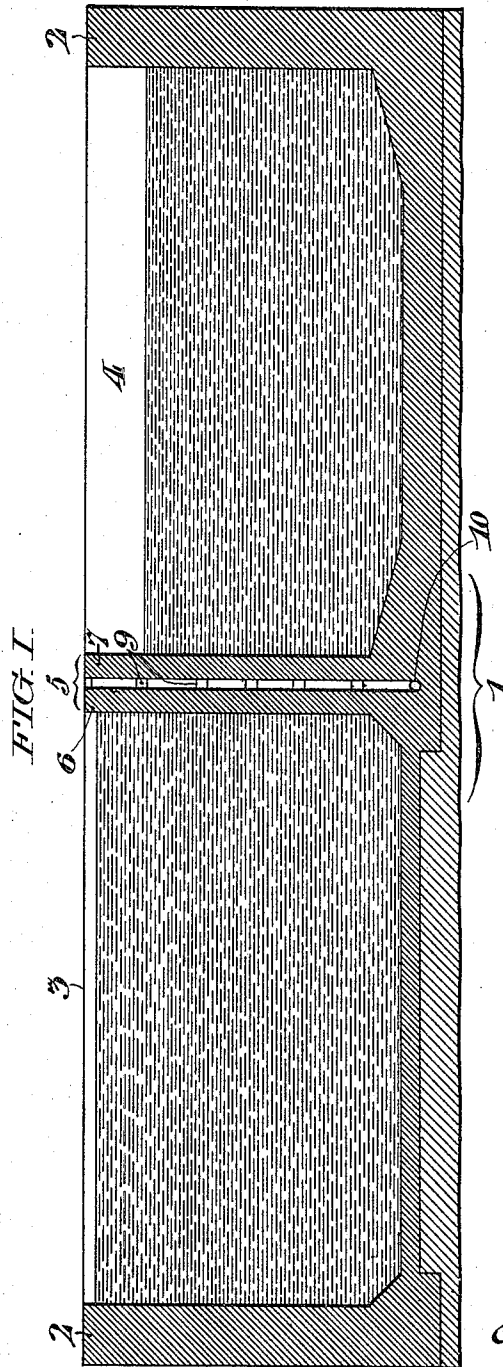


1,155,490.

G. F. HODKINSON.
RESERVOIR.
APPLICATION FILED JULY 20, 1910.

Patented Oct. 5, 1915.
2 SHEETS—SHEET 1.



Witnesses
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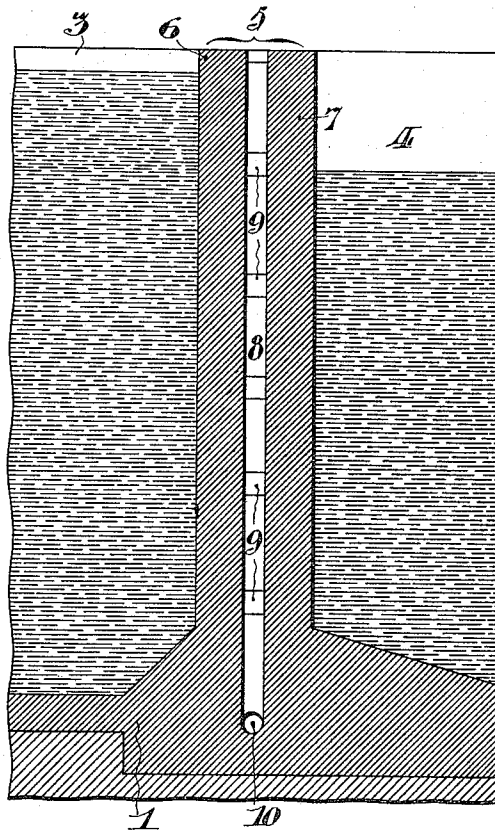
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2 SHEETS—SHEET 2.

FIG. II.



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UNITED STATES PATENT OFFICE.

GEORGE F. HODKINSON, OF PHILADELPHIA, PENNSYLVANIA.

RESERVOIR.

1,155,490.

Specification of Letters Patent.

Patented Oct. 5, 1915.

Application filed July 20, 1910. Serial No. 572,805.

To all whom it may concern:

Be it known that I, GEORGE F. HODKINSON, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Reservoirs, whereof the following is a specification, reference being had to the accompanying drawings.

My invention relates to new and useful improvements in reservoirs, and more especially to reservoirs used in connection with filtration plants, wherein the sedimentation basin in said reservoir is adjacent the filtered water basin, and said basins are separated solely by a partition which is formed of concrete or other similar material. It has been found that in reservoirs of this character, there is more or less leakage from the sedimentation basin into the basin containing the filtered water, which, of course, contaminates the filtered water.

An object of the invention is to provide means whereby this leakage from one basin into another may be wholly prevented.

In the drawings, Figure I, is a sectional view showing diagrammatically a reservoir having adjacent basins separated solely by a partition. Fig. II, is an enlarged sectional view of the separating partition.

My invention is of especial advantage in connection with reservoirs which are formed of concrete material or the like.

For the purpose of illustration, I have shown diagrammatically in the drawings, a reservoir 1, consisting of end walls 2, and side walls which may be made in any desired construction. Said reservoir is divided into two basins 3, and 4, which are located adjacent to each other, and separated by a partition 5. The partition 5, may be made of concrete structure or the like, and serves as the sole means for separating the basins 3, and 4. One of the basins may be used if desired as a sedimentation basin, and the other for the purpose of retaining the filtered water. It has been found that where basins are located adjacent to each other, and separated solely by a concrete partition, that there is a gradual seeping or leakage of the water through the concrete structure, and the filtered water thus becomes contaminated. In order to prevent this seep-

ing of the water through the separating partition, I have constructed my partition with two spaced walls 6, and 7, which form a seepage pocket 8, that extends throughout the entire length and height of the partition, so that the entire surface exposed to the contaminated water in the basin 4, is separated from the filtered water by this seepage pocket. In order to strengthen the partition, I have provided cross struts 9, which run from one wall 5, to the other 6, thus producing a substantially unitary wall construction between the outer faces of which is located the seepage pocket.

A suitable drain connection 10, is formed at the lower portion of the seepage pocket. It will readily be seen that any water from the basin 4, which leaks or in any way seeps through the concrete structure forming the partition 5, will be caught by the seepage pocket 8, and carried off through the drain 10.

It is obvious that various changes in the form of construction, or the manner of utilizing my improved construction of partition wall, may be made without departing from the spirit of my invention.

I claim:—

1. A solid wall for a reservoir basin formed of concrete and provided with a seepage pocket, which divides said wall vertically into two sections, said pocket serving to prevent seepage from one side of said wall to the other, and a drain connection for said pocket.

2. A solid wall for a reservoir basin, formed of concrete, and provided with a seepage pocket which divides said wall vertically into two sections, said pocket serving to prevent seepage from one side of said wall to the other, struts extending across said pocket at spaced intervals vertically, and connecting the concrete sections for strengthening the same, and a drain connection for said pocket.

In testimony whereof, I have hereunto signed my name at Philadelphia, Pennsylvania, this fourteenth day of July, 1910.

GEORGE F. HODKINSON.

Witnesses:

JAMES H. BELL,
E. L. FULLERTON.