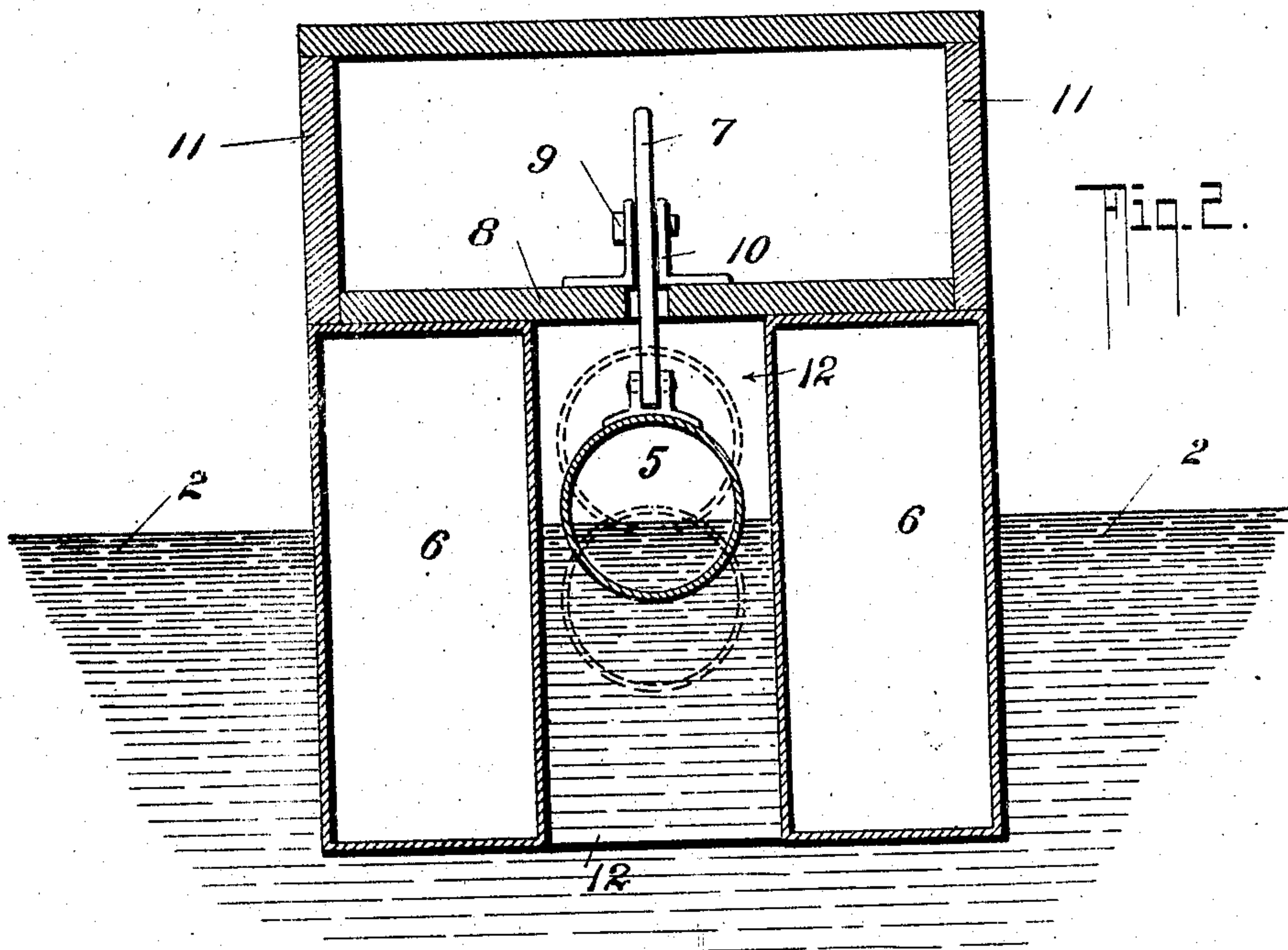
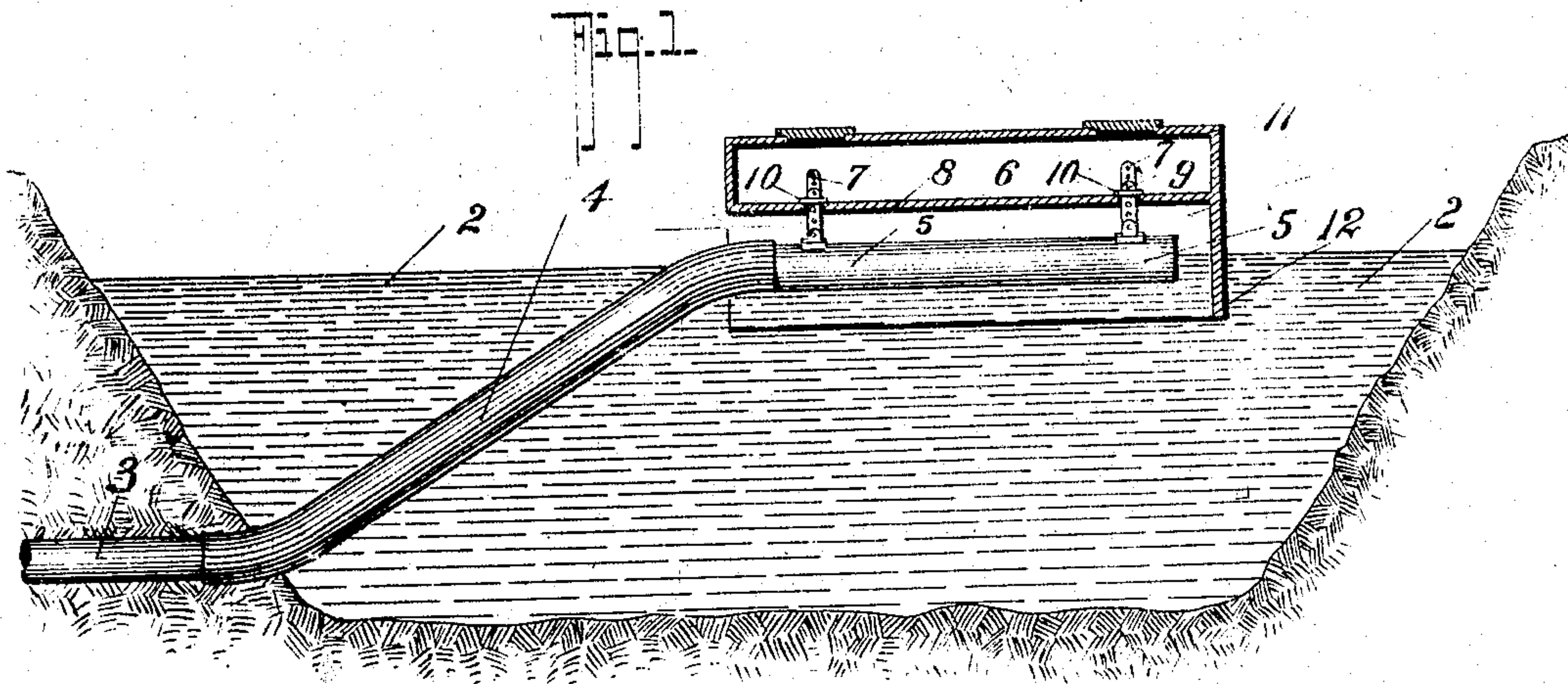


W. H. TUCKER.
IRRIGATION DITCH OUTLET.
APPLICATION FILED OCT. 29, 1908.

930,903.

Patented Aug. 10, 1909.



WITNESSES:

Charles H. Wagner

INVENTOR

William H. Tucker

BY

Fred G. Dietrich
ATTORNEY

UNITED STATES PATENT OFFICE.

WILLIAM HENRY TUCKER, OF VERNON, BRITISH COLUMBIA, CANADA.

IRRIGATION-DITCH OUTLET.

No. 930,903.

Specification of Letters Patent.

Patented Aug. 10, 1909.

Application filed October 29, 1908. Serial No. 400,137.

To all whom it may concern:

Be it known that I, WILLIAM H. TUCKER, a citizen of the Dominion of Canada, residing at Vernon, in the Province of British Columbia, Canada, have invented a new and useful Improvement in Irrigation-Ditch Outlets, of which the following is a specification.

This invention relates to an outlet from an irrigation ditch designed to maintain a constant flow irrespective of fluctuation in the level of the water in the ditch, and also for the regulation in the amount of such flow. These results are attained by supporting the mouth of the outlet pipe on a float in the ditch, which outlet pipe is flexibly connected to the outlet delivery; and by providing means, in the attachment of the outlet pipe to the float, for the vertical adjustment of the outlet in relation to the water level.

The invention is particularly described in the following specification, reference being made to the drawings by which it is accompanied, in which:

Figure 1 is a cross section of an irrigation ditch or channel showing my floating outlet therein, one side of the float being removed to reveal the outlet pipe, and, Fig. 2, a cross section of the outlet pipe and float showing its attachment to the float.

In these drawings 2 represents the water level in the irrigation ditch, 3 being the delivery pipe to a subsidiary channel which it is desired to serve. This delivery pipe 3 is toward the bottom of the ditch and is connected to a floatable outlet pipe 5 by a length of hose 4 or by other flexible means.

The outlet pipe 5 may be sustained by a floatable body of any form that will hold the pipe preferably in a horizontal position at or near the level of the water in the ditch and that will permit of the pipe being lifted out of the water or immersed in it to any desired amount. This is preferably done as shown in Fig. 2, by suspending the pipe 5 between two hollow floats 6 which are connected together by a yoke 8 that will permit of the pipe being raised and lowered the required amount.

In order to raise and lower the pipe hori-

zontally I suspend it from a yoke 8 which connect the two floats 6 together by means of two links 7, secured to the pipe 5 and by pins 9 to angle irons or brackets 10 on the yokes, the links 7 being provided with a succession of pin holes for adjustment of the level of the outlet pipe in relation to the float, and these links 7 may be graduated to indicate the amount in inches of water which will pass through the pipe at the various positions. The adjustment may be protected by a hinged cover 11 which may be locked to prevent interference, or a wire rod may be passed through the ends of the pins 9 and be locked to prevent such interference.

The mouth of the outlet pipe 5 may be guarded against the entrance of floating matter in the ditch by a board 12 across the ends of the float.

I do not desire to be confined to the particular construction of the float and the manner of attachment of the pipe 5 thereto, as such may be varied to suit the requirements of manufacture.

Having now particularly described my invention and its application, I hereby declare that what I claim as new and desire to be protected in by Letters Patent, is:

1. In an outlet for an irrigation ditch, the combination with an outlet delivery pipe situated below the level of the water in the ditch, of an outlet mouth pipe suspended horizontally between two connected hollow floats, means for adjustment of the mouth pipe in relation to the float said means comprising links pin connected to the mouth pipe and to the yoke connecting the floats, said links being provided with a series of pin holes for adjustment of the pipe vertically in relation to the float, means for protecting the adjustment from interference, and means for protecting the mouth of the pipe from floatable matter in the ditch.

2. In an outlet for an irrigation ditch, the combination with an outlet delivery pipe situated below the level of the water in the ditch, of an outlet mouth pipe, a pair of floats situated at each side of said outlet mouth pipe and yoked together, and means

supported by the yoke of said floats for holding said outlet mouth pipe in position, and a guard board disposed across the ends of said floats and across the inlet to said
5 outlet mouth pipe, and an adjustable connection between said outlet mouth pipe and said outlet delivery pipe.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM HENRY TUCKER.

Witnesses:

MALCOLM JAY MATHESON,
CLEMENT F. COSTERTON.