

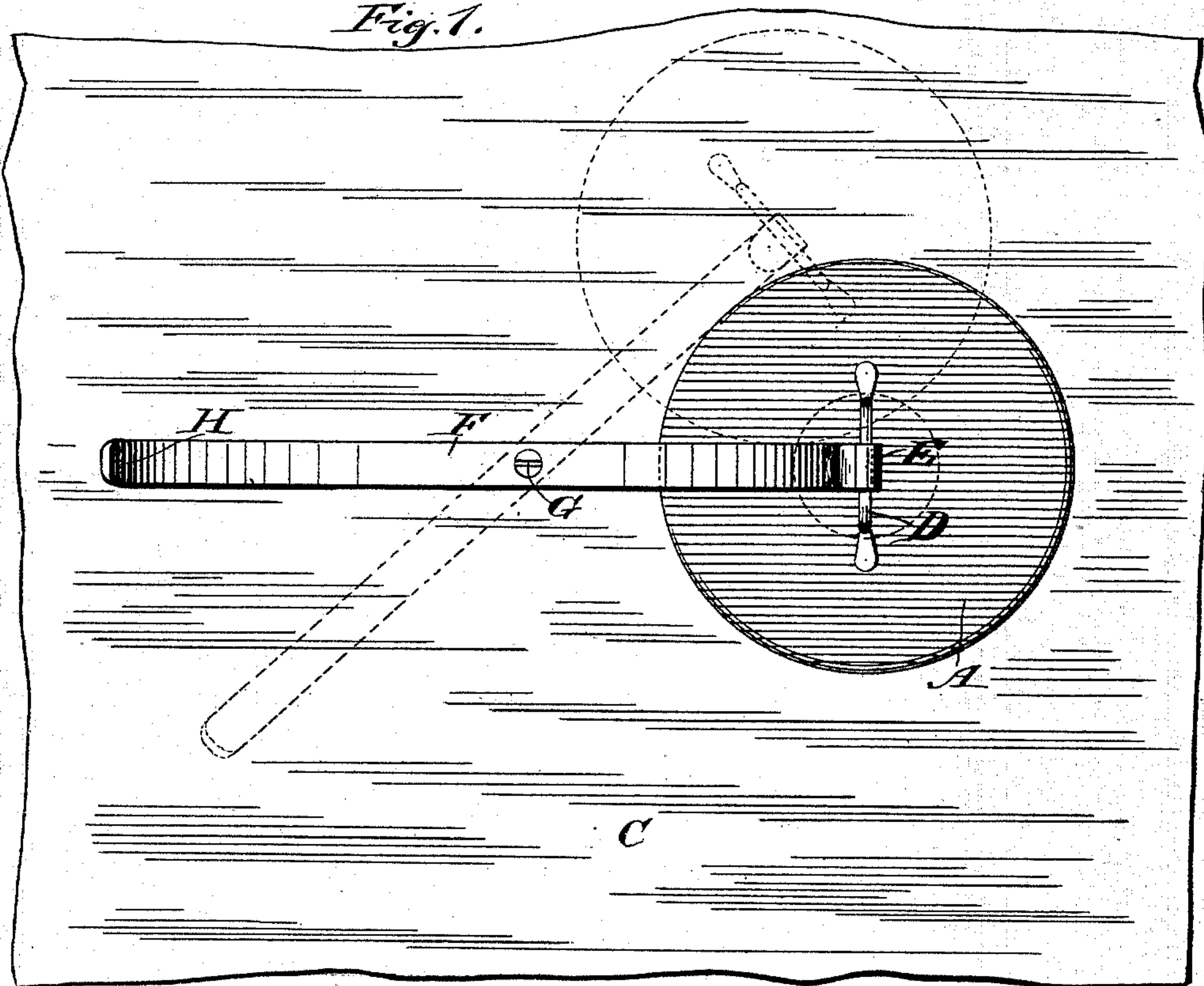
(No Model.)

S. M. IRVIN.  
FLUME GATE.

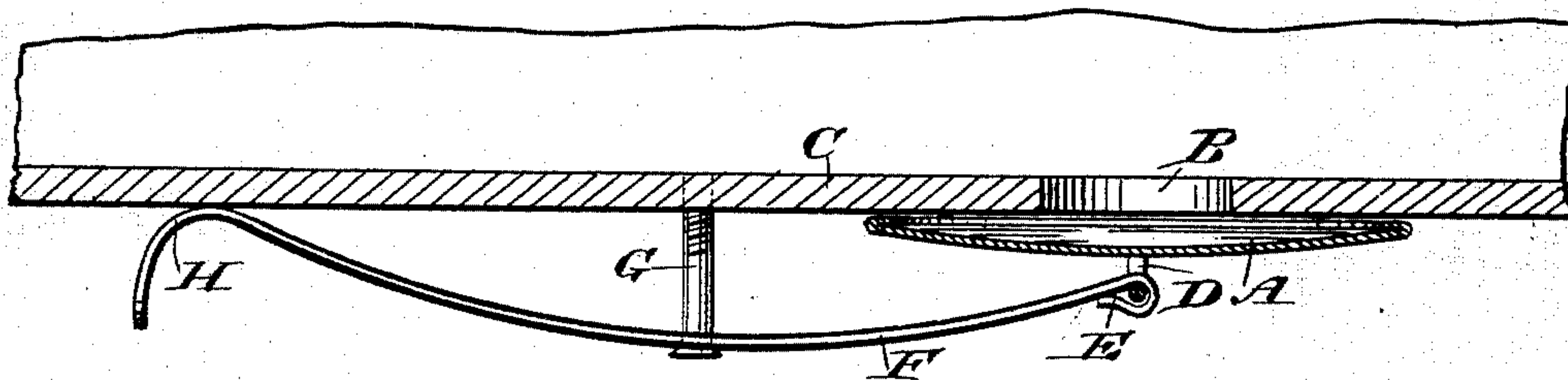
No. 483,455.

Patented Sept. 27, 1892.

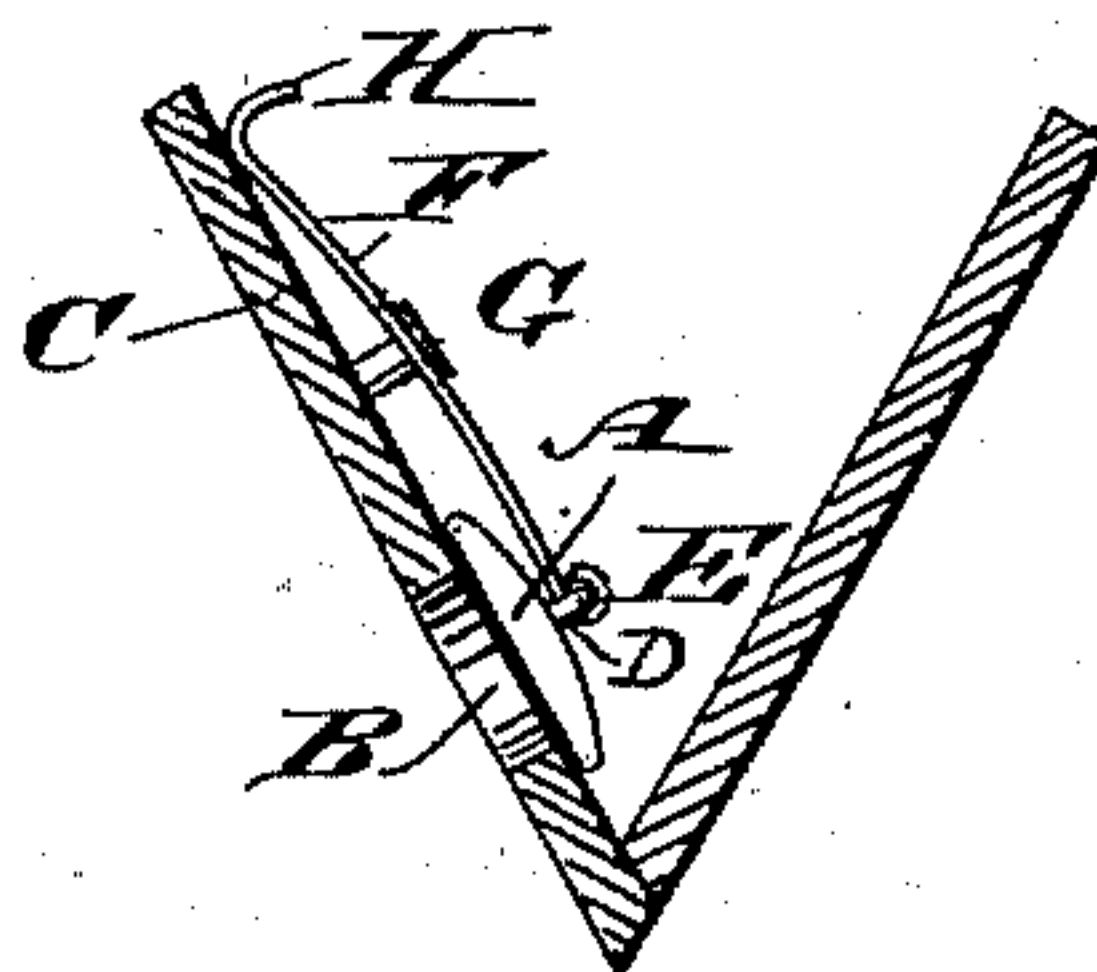
*Fig. 7.*



*Fig. 2.*



*Fig 3*



WITNESSES :

F. Mc Ardle.  
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# UNITED STATES PATENT OFFICE.

STEPHEN M. IRVIN, OF SAN BERNARDINO, CALIFORNIA.

## FLUME-GATE.

SPECIFICATION forming part of Letters Patent No. 483,455, dated September 27, 1892.

Application filed December 26, 1891. Serial No. 416,183. (No model.)

*To all whom it may concern:*

Be it known that I, STEPHEN M. IRVIN, of San Bernardino, in the county of San Bernardino and State of California, have invented a new and Improved Flume-Gate, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved flume-gate which is simple and durable in construction and arranged to prevent leakage and to permit of conveniently cleaning the flume in case the latter is clogged with sand.

The invention consists of certain parts and details and combinations of the same, as will be fully described hereinafter, and then pointed out in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is an inverted plan view of the improvement. Fig. 2 is a sectional side elevation of the same. Fig. 3 is a cross-section of a V-shaped flume with the improvement applied to one side thereof.

The improved flume-gate is provided with a cap or valve A, preferably made in the shape of a dish and adapted to close the opening B in the bottom or side of the flume C, of square or V shape in cross-section. The cap A is fitted either on the outside or inside of the bottom or side of the flume C and is provided with a downwardly or outwardly extending staple D, engaged by an eye E of a lever F, fulcrumed on a stud G, attached to the bottom or side of the flume, as is plainly shown in the drawings.

The lever F is made in the shape of a spring, having its free end H resting on the respective inner or outer face of the bottom or side of the flume C, so that the force of the spring presses the cap A firmly in contact with the respective face of the bottom or side to close the opening B.

The free end H of the lever F is bent outward slightly, as is plainly shown in Figs. 2 and 3, so as to form a handle adapted to be taken hold of by the operator for turning the lever F, so as to move the cap A over the opening B or from the same, as illustrated in dotted lines in Fig. 1. It will be seen that by this arrangement the cap A can be moved to the side of the opening B, so as to clean the flume of sand or other material which may clog said flume.

It will be understood that the spring-lever presses at all times the cap securely in position on the face of the bottom or side of the flume C to prevent leakage when the said cap closes the opening B.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

A flume-gate comprising a cap adapted to close an opening in the flume and a lever pivotally connected with the said cap and pivoted on the flume, the said lever being made in the form of a spring, one end of which is connected with the cap and the other end pressing on the flume, substantially as shown and described.

STEPHEN M. IRVIN.

Witnesses:

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