

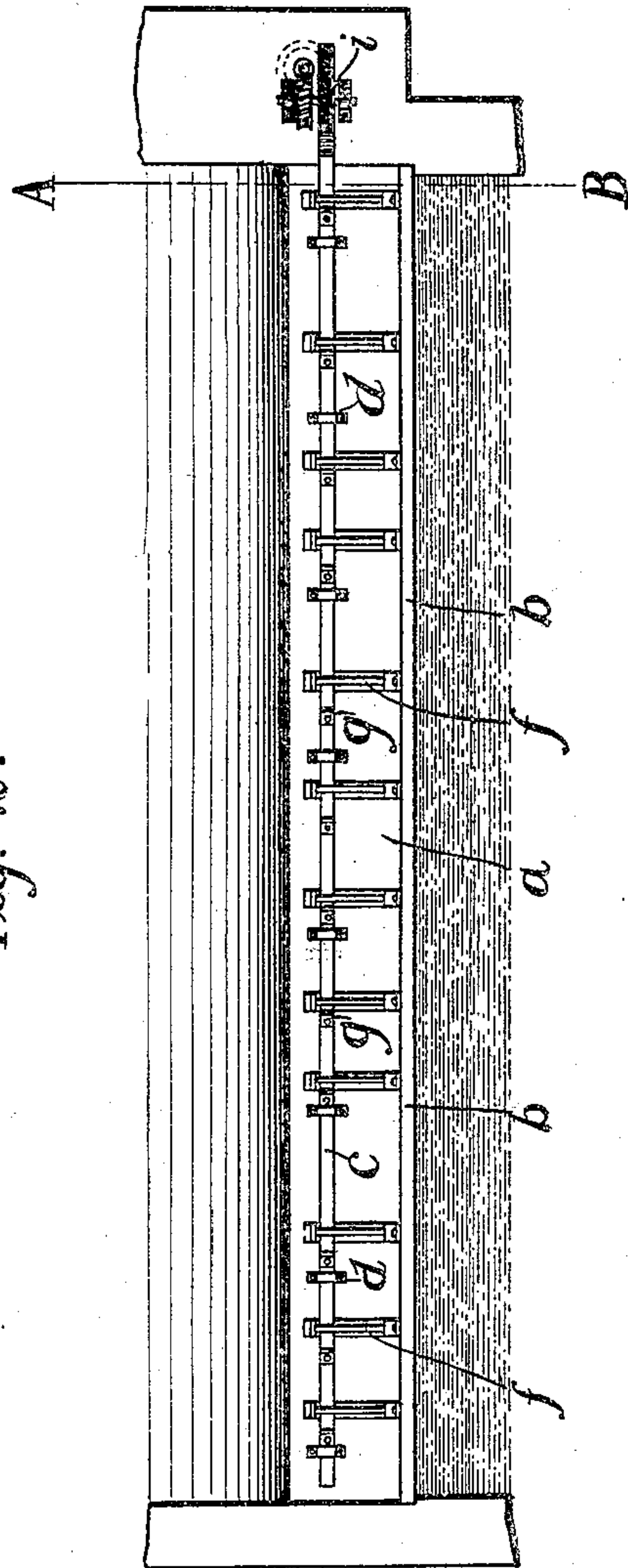
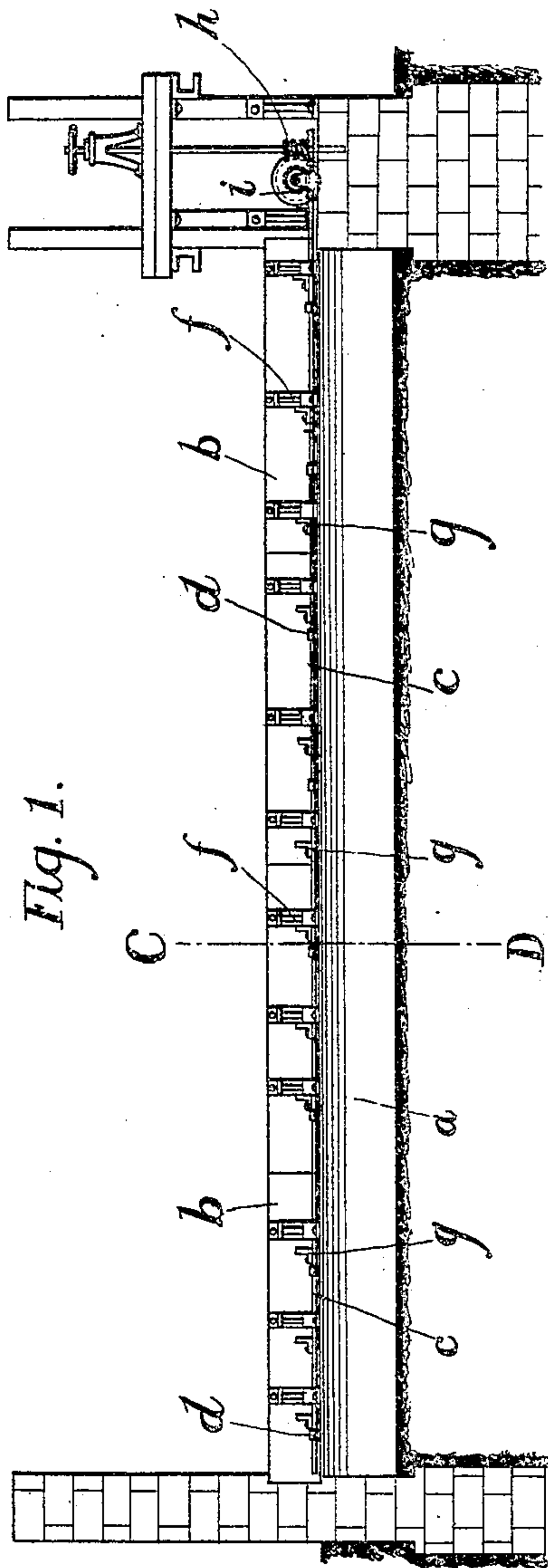
No. 792,517.

PATENTED JUNE 13, 1905.

H. HERZIG.
WEIR.

APPLICATION FILED JAN. 26, 1904.

2 SHEETS—SHEET 1.



Witnesses:
M. B. Hayes.
E. A. Panabaker.

Inventor.
Hermann Herzig
By Knight Bros
attys.

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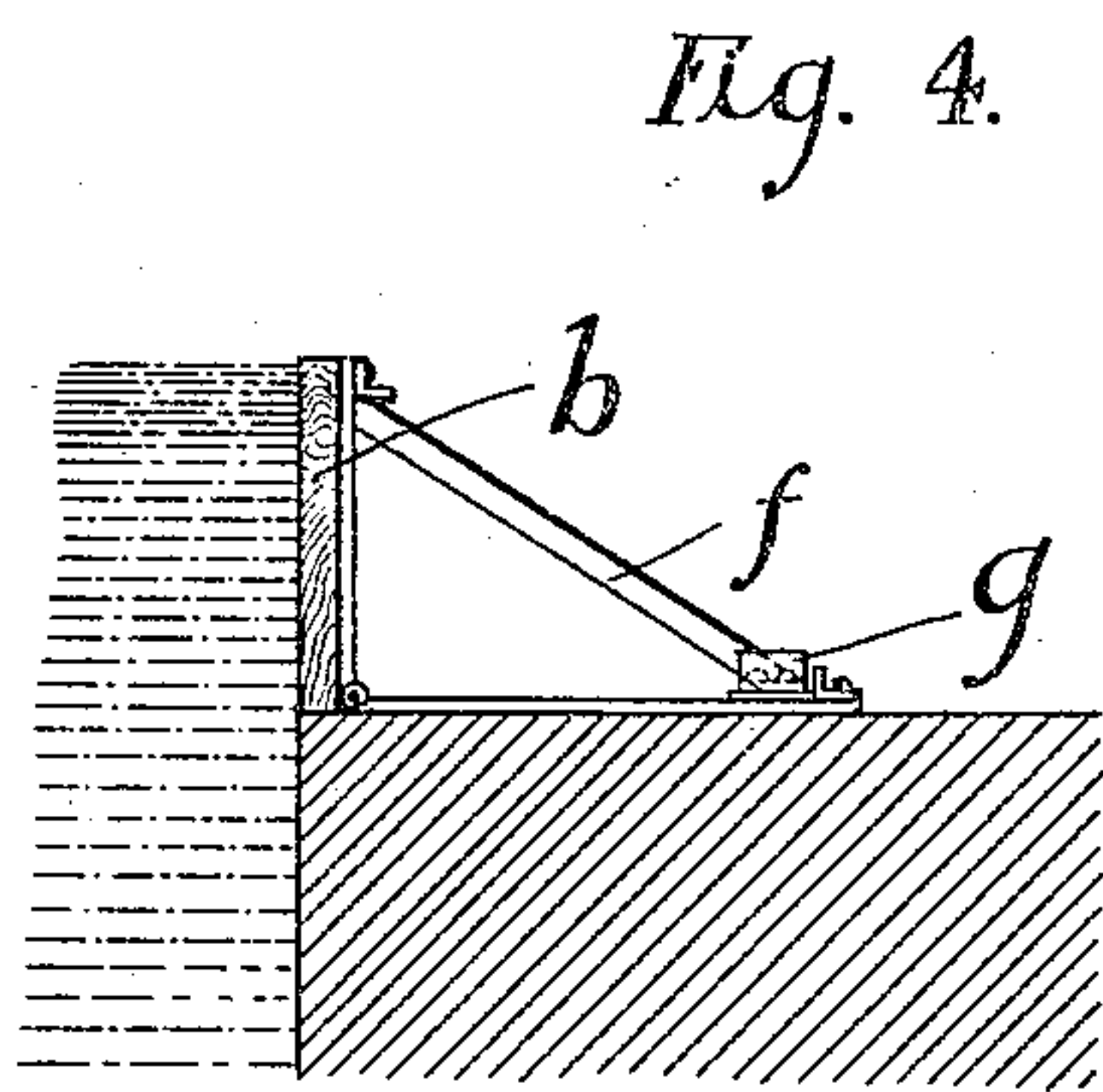
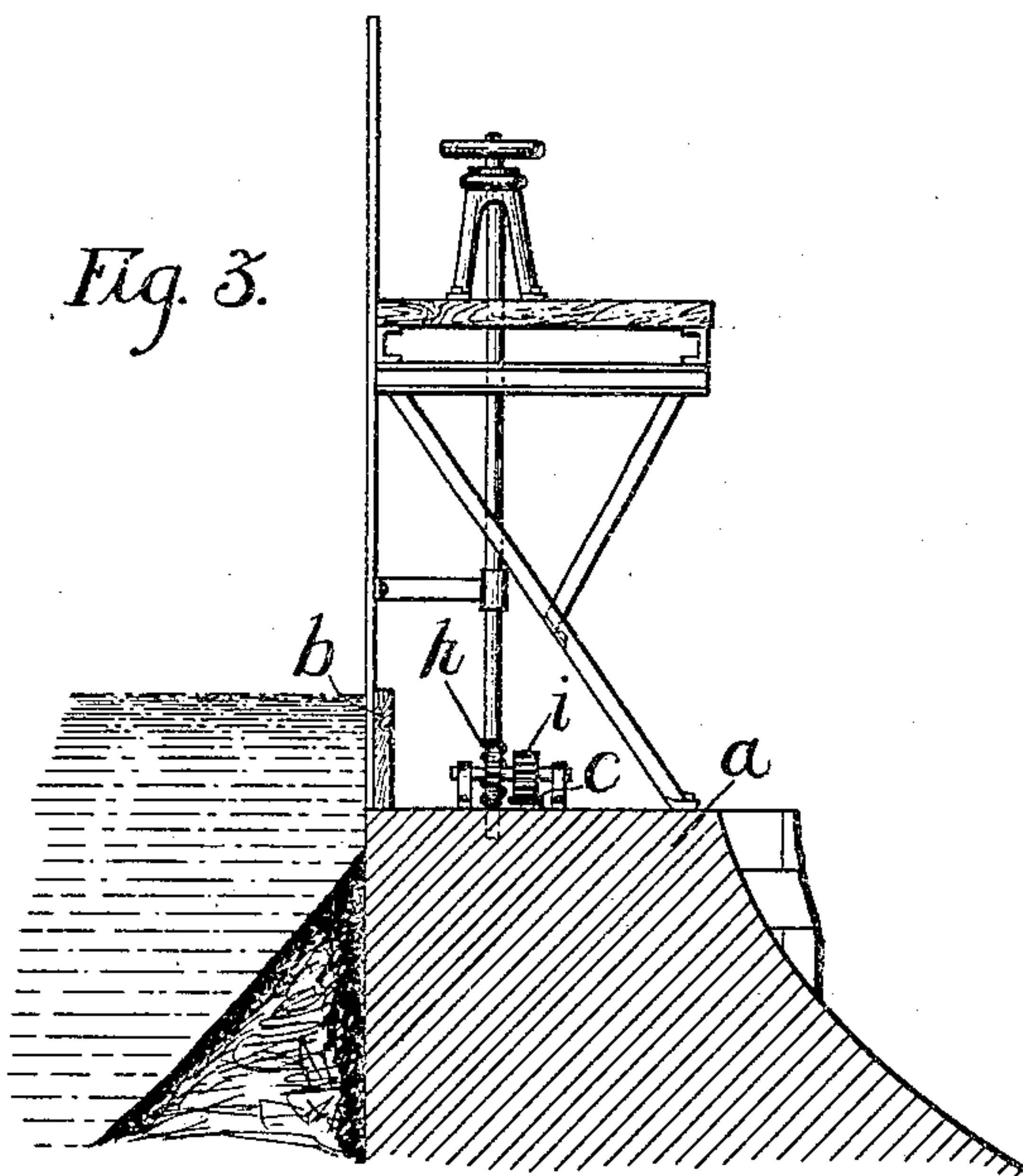
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UNITED STATES PATENT OFFICE.

HERMANN HERZIG, OF WANGEN, ALGAU, GERMANY.

WEIR.

SPECIFICATION forming part of Letters Patent No. 792,517, dated June 13, 1905.

Application filed January 26, 1904. Serial No. 190,655.

To all whom it may concern:

Be it known that I, HERMANN HERZIG, a citizen of the German Empire, and a resident of Wangen, Algau, Württemberg, Germany, have invented certain new and useful Improvements in Weirs, of which the following is a specification.

My invention relates to a device for the removal of the supports holding the lock of a weir by means of a bar sliding on passages; and its object is to provide a construction allowing the removal of the said supports, and thereby opening the lock at any time and from a convenient place.

The accompanying drawings show the arrangement of the device.

Figure 1 is a front view, and Fig. 2 a top view, of a weir where my device is employed. Fig. 3 is a section on the line C D of Fig. 1, and Fig. 4 another section on the line A B of Fig. 2.

On a base *a*, of concrete or hydraulic cement, there is constructed a dam or lock of jointed or hinged boards, planks, or sheet-plates *b*, which are held upright by supports *f*, thus obstructing the current of the water, and will drop on removal of said supports, opening partially or entirely the passage of the water. On the said base *a* there is further provided a bar *c*, sliding on passages *d* and carrying tripping-lugs *g* in such number as may be required for the number of trap-boards *b* which it is desired to open. The

said bar *c* is at one end provided with a rack which engages in a gear-wheel mechanism provided at or on the gang board or path of the gravel-lock or at any other convenient place near by. By actuating the mechanism the said bar *c* will be drawn forward and the lugs *g* on the same will strike the lower ends of the supports *f* and displace them, thus causing the respective traps to drop and open the passage. On the example shown by the drawings the tripping-lugs are so arranged that the supports *f* of two traps *b* will strike the said lower ends in two positions, and thus remove the respective supports.

What I claim as my invention, and desire to protect by Letters Patent, is—

On a weir composed of trap-locks the combination of a base of hydraulic cement or concrete, of boards or planks or sheet-plates held upright by removable supports, the said supports, a bar sliding in passages provided on said base and so shaped at one end that it engages in and is actuated by a gear mechanism provided on the path of the weir or any other convenient place near by, and tripping-lugs provided on the said bar, substantially as set forth.

In testimony whereof I have hereunto signed my name in the presence of two witnesses.

HERMANN HERZIG.

Witnesses:

JOHANNES KRAFT,
ERNST ENTENMANN.