2 Sheets—Sheet 1.

S. BARKER.

MOLASSES-GATE.

No. 186,193. Patented Jan. 16, 1877.

Fig 1

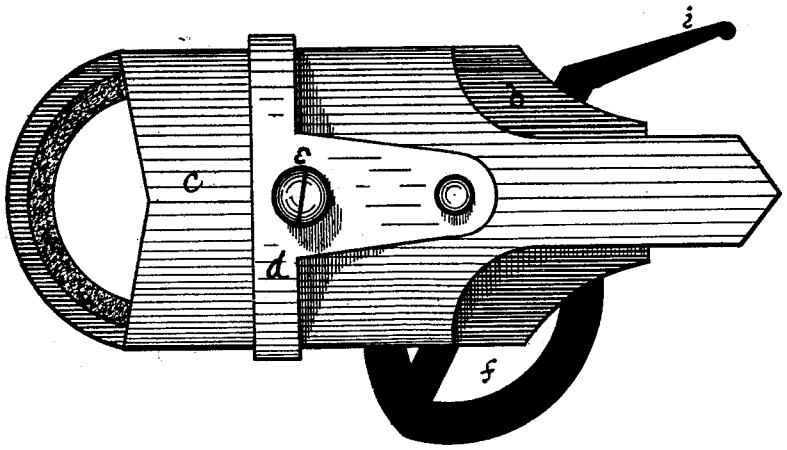
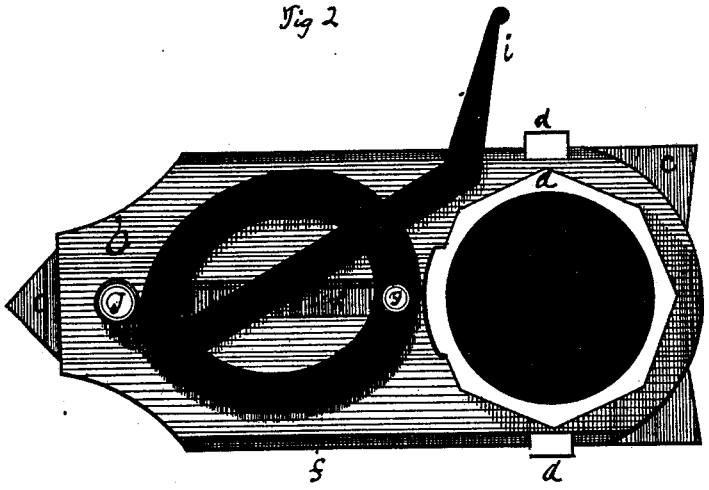


Fig 2



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2 Sheets—Sheet 2.

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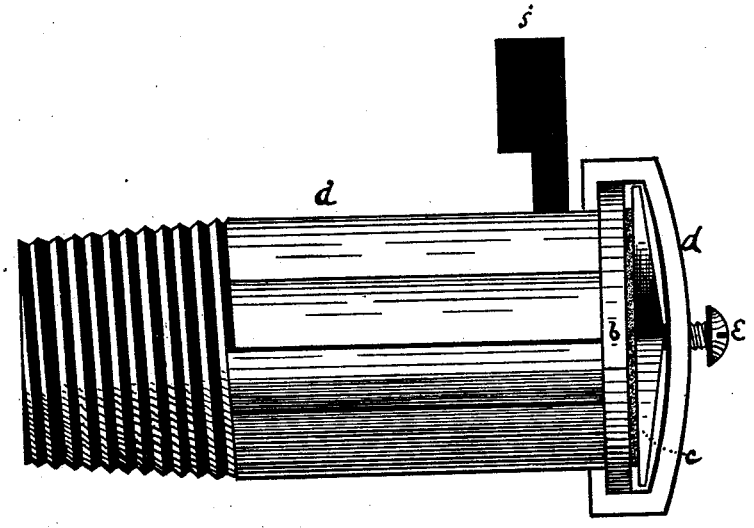
Fig 3



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UNITED STATES PATENT OFFICE.

SILAS BARKER, OF HARTFORD, ASSIGNOR TO T. DWIGHT HOTCHKISS, OF WEST MERIDEN, CONNECTICUT.

IMPROVEMENT IN MOLASSES-GATES.

Specification forming part of Letters Patent No. **186,193**, dated January 16, 1877; application filed December 11, 1875.

To all whom it may concern:

Be it known that I, SILAS BARKER, of Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements pertaining to a Molasses-Gate, of which the following is a specification, reference being had to the accompanying drawings, where—

Figure 1 is a front view with the gate partly open. Fig. 2 is a back view with the gate shut. Fig. 3 is a side view.

The letter *a* denotes the tube which screws into the barrel; *b*, an upright cast on the outer end of this tube; *c*, a vertically-reciprocating gate, held to the upright by the clamp *d*, its clamping pressure regulated by the screw *e*. *f* denotes a cam hung on the pin *g* on the back side of the gate, projecting through the slot *h* in the upright. *i* denotes a handle, whereby the cam is operated. *j* is a lug, against which the top of the cam *f* acts. By throwing the outer end of this handle upward the cam is made to rotate down against the tube *a*, and so raise the gate. By then throwing the outer end of this handle downward the cam is made to rotate against the lug *j*, and so move the gate downward. I have shown the cam hung upon and moving with the gate.

It is obvious that the cam might be pivoted on the upright and provided with a cam-groove, into which a pin should project from the gate, and the same purpose be served as in the present arrangement.

It will be noticed that the gate has a sharpened **V**-shaped edge at the foot. This is a feature of my invention.

Practice shows that an edge of this shape cuts off the stream more nicely and neatly than any edge heretofore used, and that it permits nicer graduation and regulation of a small stream.

I claim as my invention—

The combination of the double-acting cam *f*, the sliding gate *c*, and the connecting-pin *g*, moving in the slot *h* of the frame *b*, substantially as and for the purpose herein described.

SILAS BARKER.

Witnesses:

WM. EDGAR SIMONDS,

ROBERT F. GAYLORD.