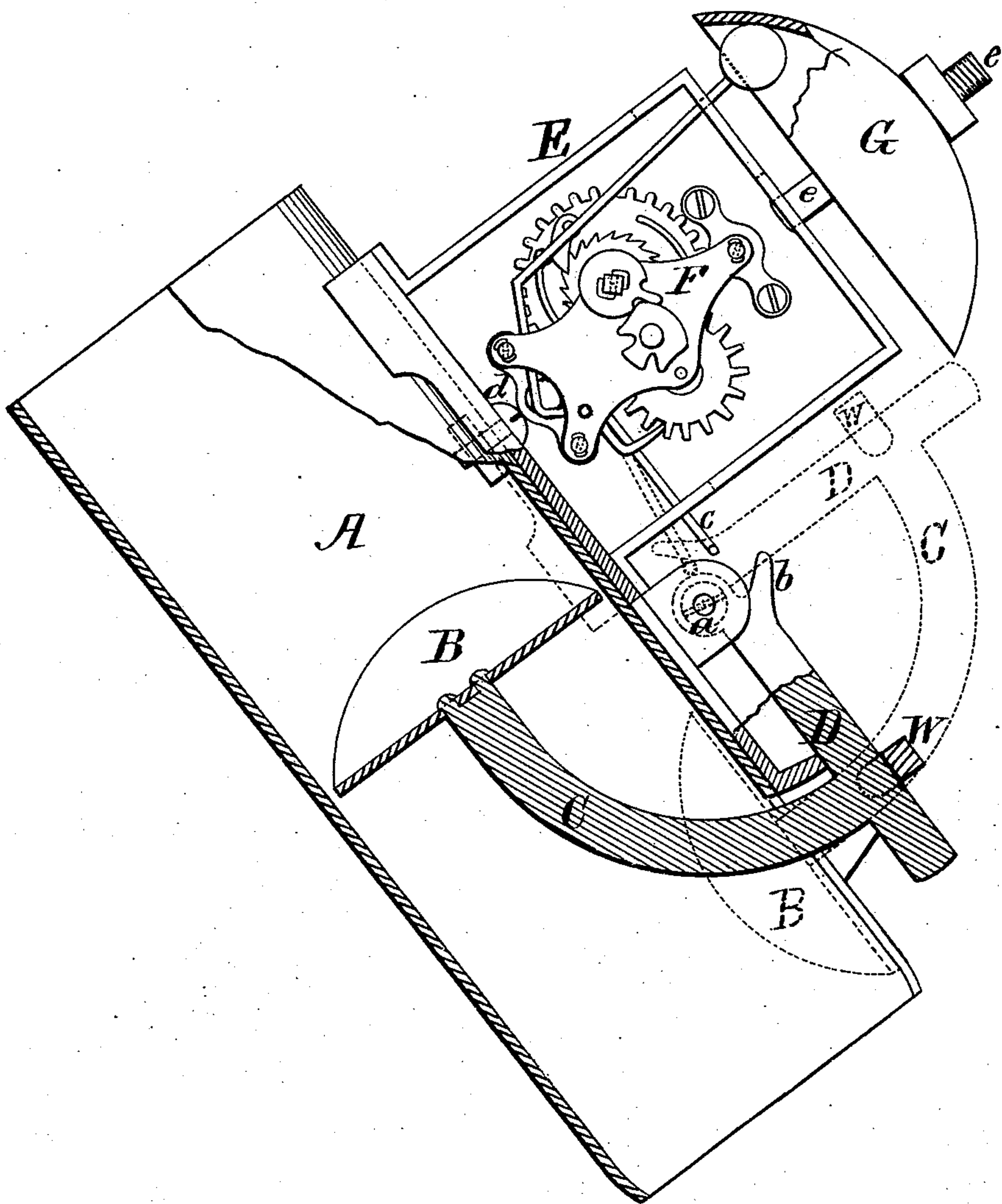


C. C. HASHON & J. W. WRIGHT.

Grist-Alarms.

No. 157,174.

Patented Nov. 24, 1874.



WITNESSES

Villette Anderson
Robert Everett

INVENTORS

Charles C. Hashon
James W. Wright
Chipman & Co.

ATTORNEYS

UNITED STATES PATENT OFFICE.

CHARLES C. HASHON AND JAMES W. WRIGHT, OF MINNEAPOLIS, MINN.

IMPROVEMENT IN GRIST-ALARMS.

Specification forming part of Letters Patent No. **157,174**, dated November 24, 1874; application filed October 10, 1874.

To all whom it may concern:

Be it known that we, CHARLES C. HASHON and JAMES W. WRIGHT, of the city of Minneapolis, in the county of Hennepin and State of Minnesota, have invented a new and valuable Improvement in Millstone Feed-Alarms; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

The figure of the drawing is a representation of a sectional view of our millstone feed-alarm.

Our invention has relation to an improvement in automatic alarms for millstone-feeders; and consists in the novel construction and arrangement of devices which, when connected with ordinary clock mechanism, will cause a bell to sound when the run of grain through the feed-pipe ceases, as will be hereinafter more fully explained.

In the drawings, the letter A designates an ordinary feed-pipe for conveying grain from the bin to the millstone. B represents a gate or valve in the pipe A attached to the end of a curved stem, C—this stem having the form of an arc of a circle, and having at its opposite end a cross-piece, D, extending in a line parallel to the feed-pipe. This cross-piece D is pivoted at *a*, forming a center bearing around which the stem C rotates, and has at its pivoted end upon the upper side a stud or projection, *b*, which engages with the tripping-wire *c* of the alarm-escapement. E designates a case containing the ordinary clock-mechanism F, which is fastened by means of a screw

and nut, *d*, to the outside of the feed-pipe. Above this case is arranged the bell G upon a post, *e*. W designates a movable regulating-weight, formed to fit upon the cross-piece D, and which, being moved from or toward its outer end, regulates the travel and motion of the gate or valve. Thus, when there is a flow of grain through the feed-pipe, its weight, falling upon the valve or gate B, will cause it to rotate around the pivoted bearing *a* until it lies close against the inner side of the feed-pipe, as indicated by the dotted lines in the drawing. When the device is in this position the stud *b* presses down upon the tripping-wire *c* of the escapement, thus holding the alarm-mechanism in check. When the flow of grain through that part of the feed-pipe in which the valve is located ceases, the valve B will rotate back into position, causing the stud *b* to spring clear of the tripping-wire, thus releasing the alarm-escapement, in which case an alarm will be sprung, and the grinding mechanism can then be stopped.

What we claim as new, and desire to secure by Letters Patent, is—

The combination of the gate or valve B, valve-stem C, and cross-piece D, having the movable weight W and stud *b*, with the tripping-wire *c* of the alarm-escapement.

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

CHARLES C. HASHON.
JAMES W. WRIGHT.

Witnesses:

LEWIS BROWMAN,
ANTON GRETHEN.