

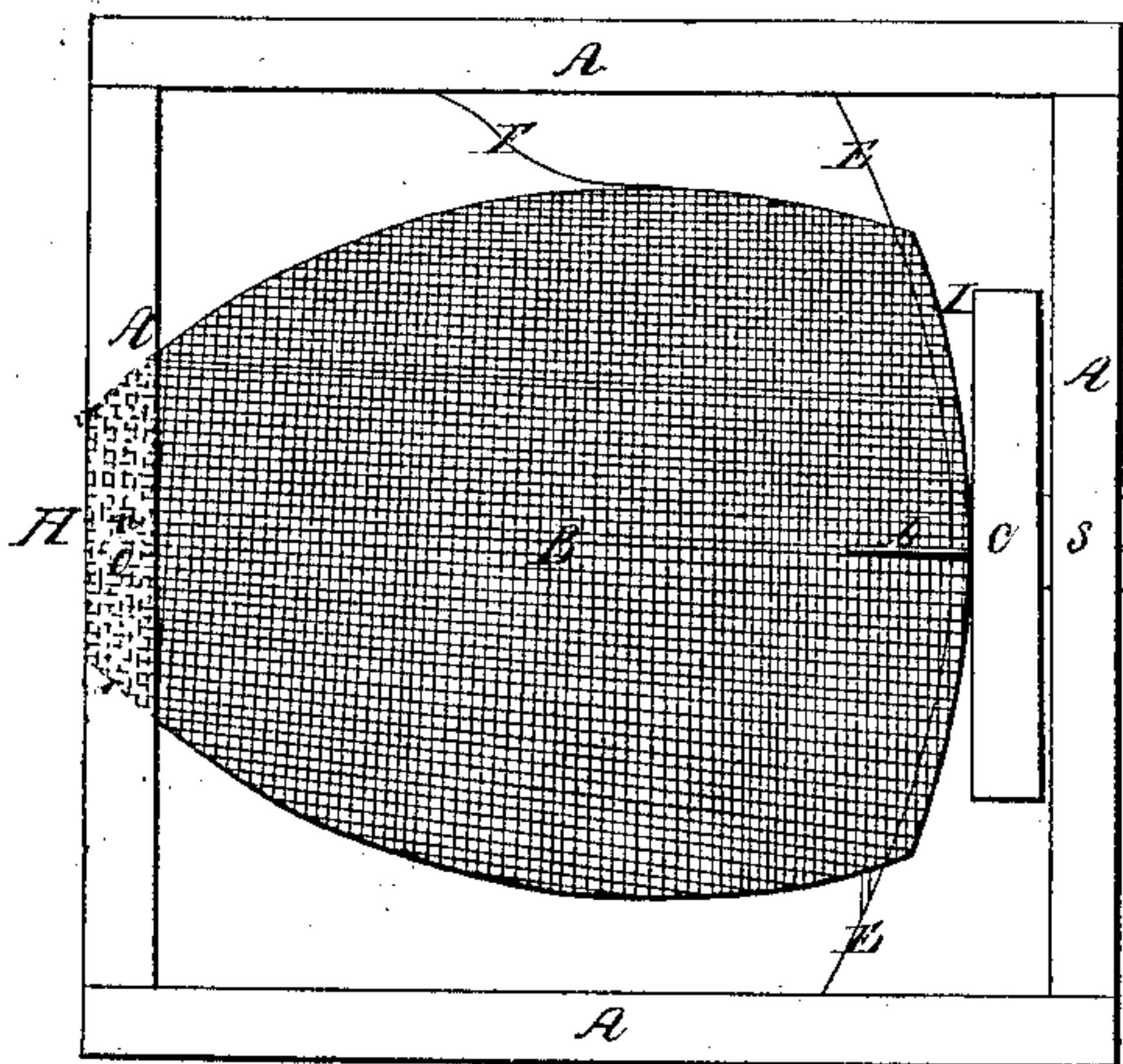
*H.C. Smith,*

*Flour Siere.*

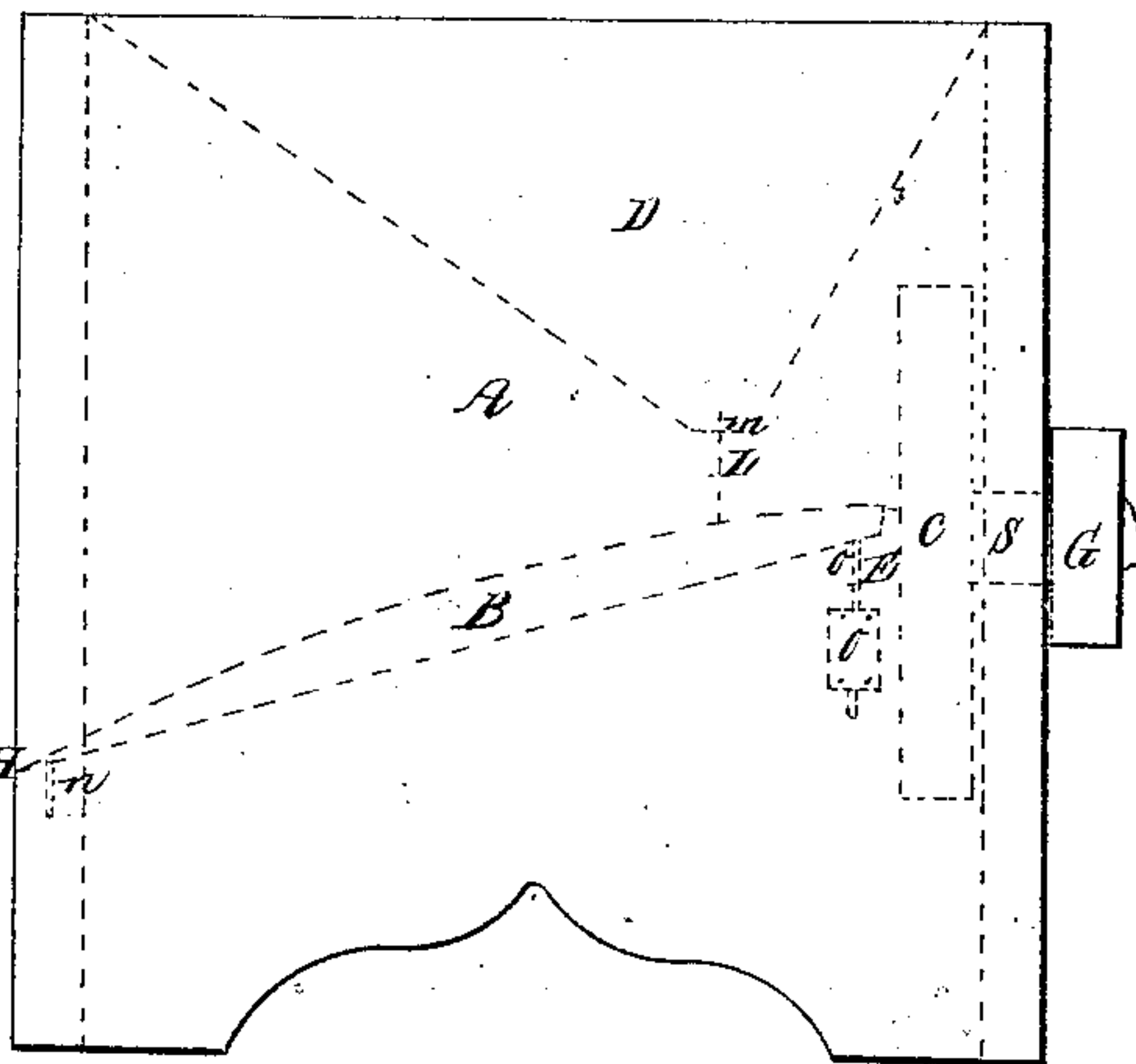
*N<sup>o</sup> 61,026.*

*Patented Jan. 8, 1867.*

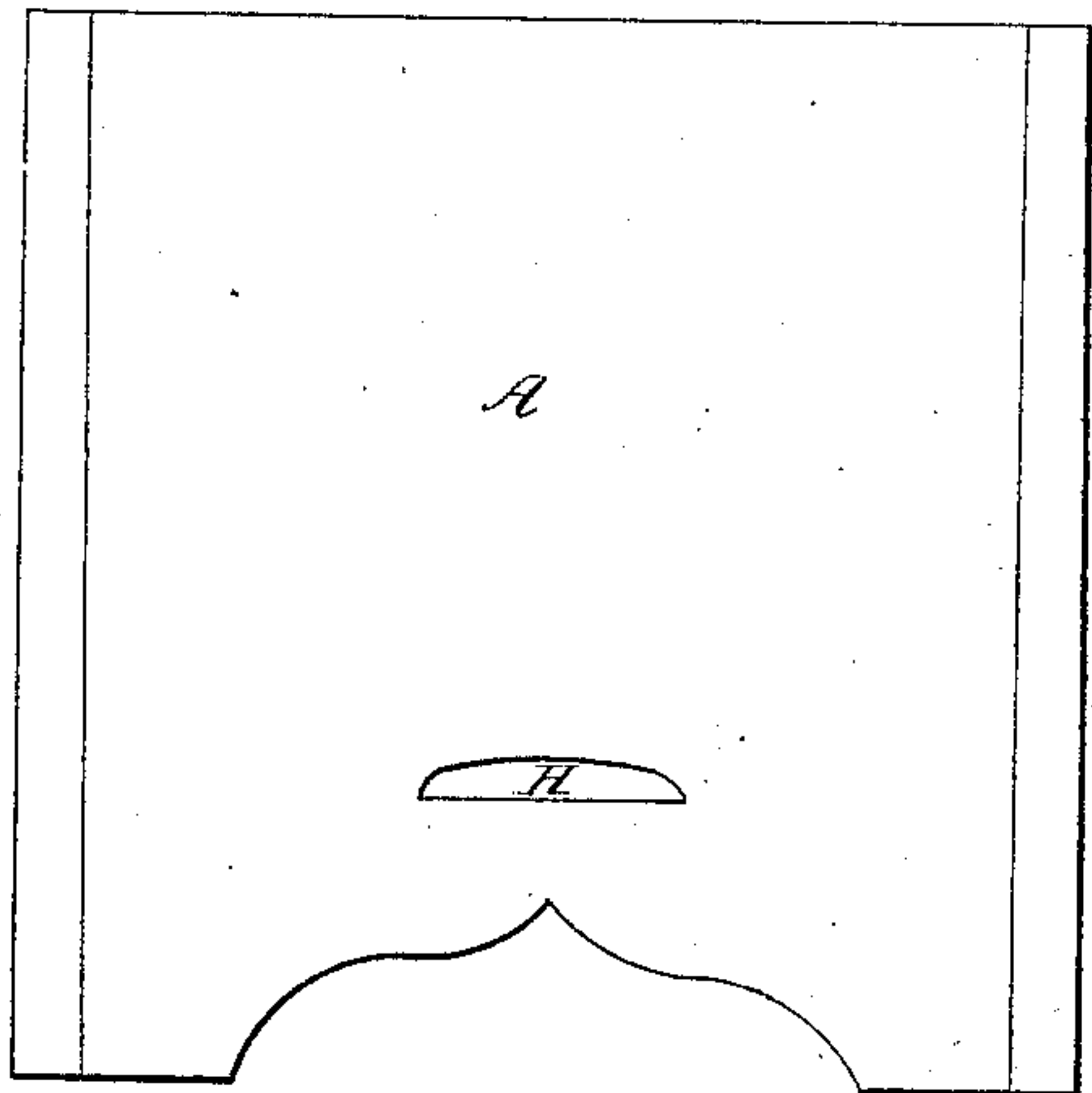
*Fig: 1.*



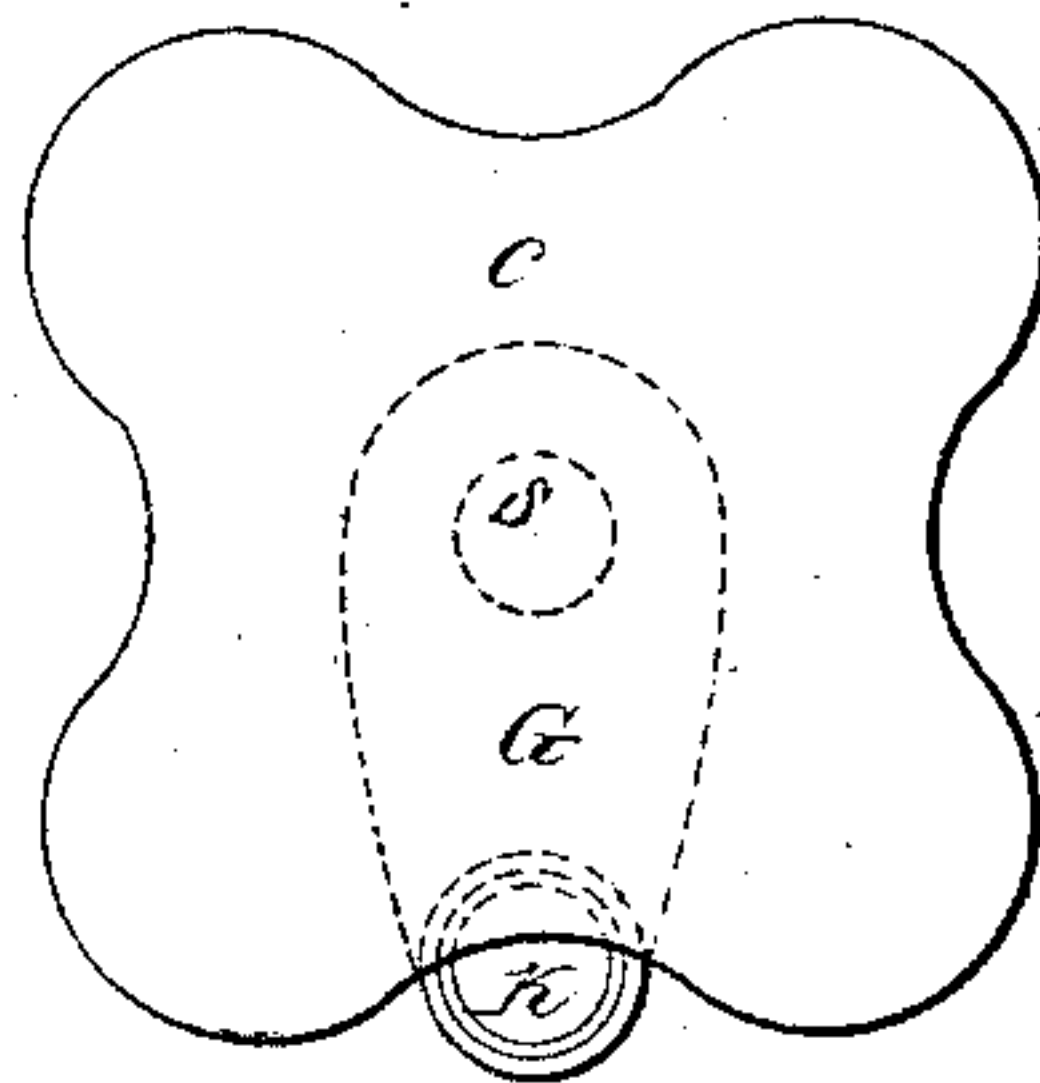
*Fig: 2.*



*Fig: 3.*



*Fig: 4.*



*Witnesses:*

*R. W. Conaughy*  
*Horan Jordan*

*Inventor:*

*Harlow C. Smith*

# United States Patent Office.

HARLOW C. SMITH, OF CHAMPAIGN CITY, ILLINOIS.

*Letters Patent No. 61,026, dated January 8, 1867.*

## IMPROVED FLOUR-SIFTER.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, HARLOW C. SMITH, of Champaign City, county of Champaign, and State of Illinois, have invented new and useful improvements in "Sieves" for Sifting Flour, Meal, &c., for family use; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings and letters of reference marked thereon.

The nature of my invention consists in constructing a sieve in an elongated shape, open at one end, and situated on an incline, that, in sifting, the refuse will pass out, while in operation, unobstructed; also, in providing an economical device for operating and giving motion to the same. In the annexed drawings, making a part of this specification—

Figure 1 is a top view, showing the shape and connection of sieve B with wheel C.

Figure 2 gives a side sectional view, showing the hopper D and the incline of sieve B.

Figure 3, the back and end view of case A, also the aperture H for the escape of the refuse.

Figure 4 is a full front view of wheel C, showing the shape of the rim, crank, &c.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

The case A is composed of wood, its length, width, and depth being nearly equal. The hopper D, which fills the enclosure at the top of case A, converges from thence with its four sides to a proper-sized orifice at M, and in such angles as to deposit the substance to be sifted at or near the top of the sieve B. Sieve B is made of wire cloth, such as is generally used for this purpose, with tin or wood sides, and one end sufficiently high to prevent the flour or meal from escaping over the sides while in motion, one end being open, and this end attached by pivot or screw N sufficiently loose to turn on this as a centre to case A, and in the opening H, the other end being elevated to such a degree as to facilitate the escaping of the refuse through the opening H when operated. The curved wire E E, which is attached to the sides of case A at J, supports, and, with the hooks O attached to sieve B, retains, the upper end of sieve B on the wire E E. At the upper end of sieve B stands wheel C, which is composed of wood, and whose rim, composed of notches or part circles, made so as to connect a concave and convex surface alternately until these complete the rim of wheel C. This wheel C revolves with the axle S, to which it is firmly attached, and at the other end of axle S is attached a crank, G K. This axle S passes through the front side of case A. The letter I represents an iron rod firmly attached to sieve B, and which follows in the notched-surfaced rim of wheel C, and which is retained thus by the spring F fastened to case A, and working against the side of sieve B. The letter L represents the bent rim which is attached also to the front and elevated end of sieve B, one end of which operates with the motion of sieve B through the aperture M in the lower portion of hopper D to prevent clogging, and that the substance to be sifted may be equally distributed into sieve B. Motion is imparted to sieve B by revolving-wheel C.

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

The combination of wire E E, pivot N, aperture H, rod L, rod I, and hooks O, as described and for the purpose specified.

HARLOW C. SMITH.

Witnesses:

E. FALLER,

HERBERT MULLIKEN.