

D. C. Colby,

Flour Sieve.

N^o 48,520.

Patented July 4, 1865.

Fig. 1.

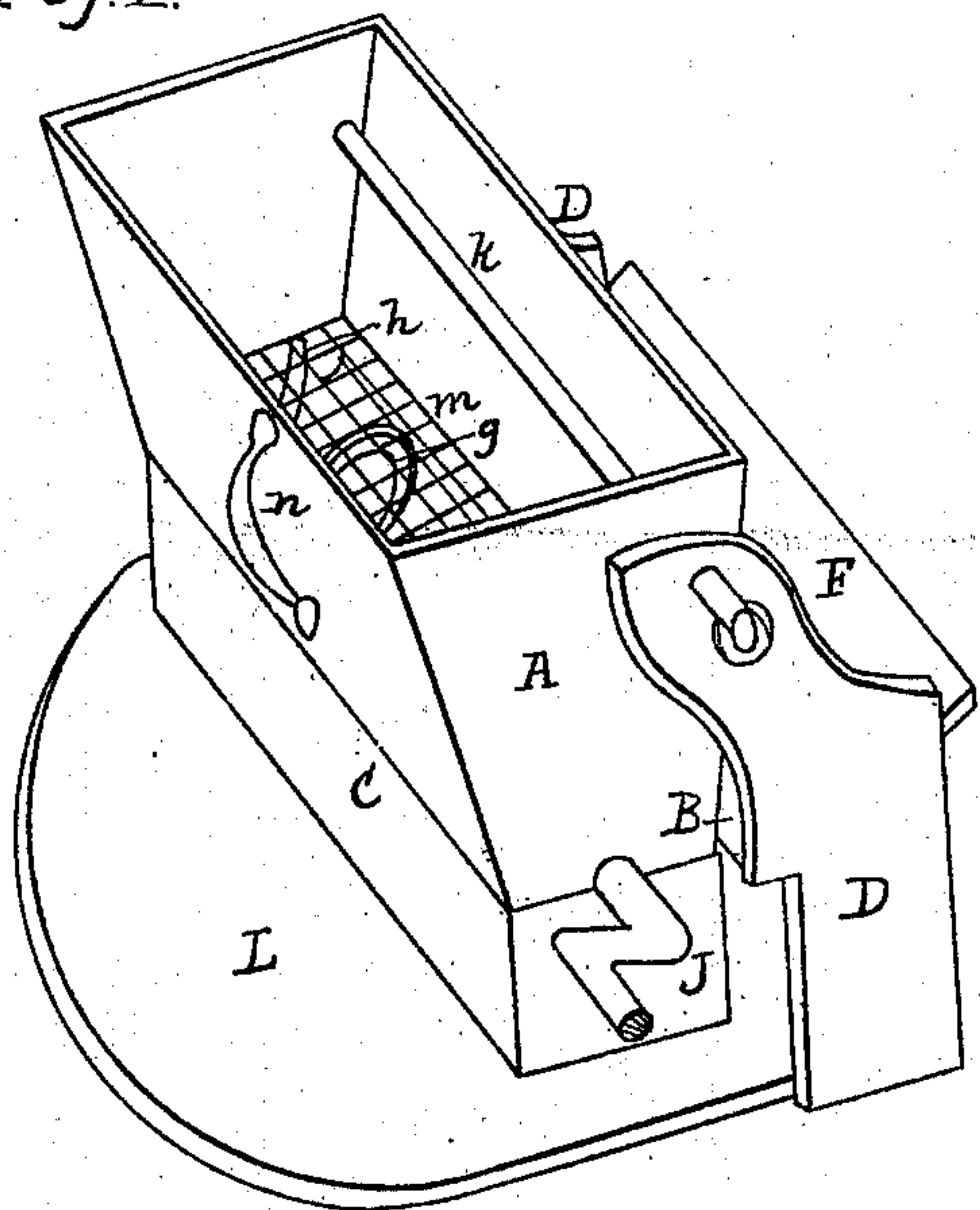


Fig. 3.

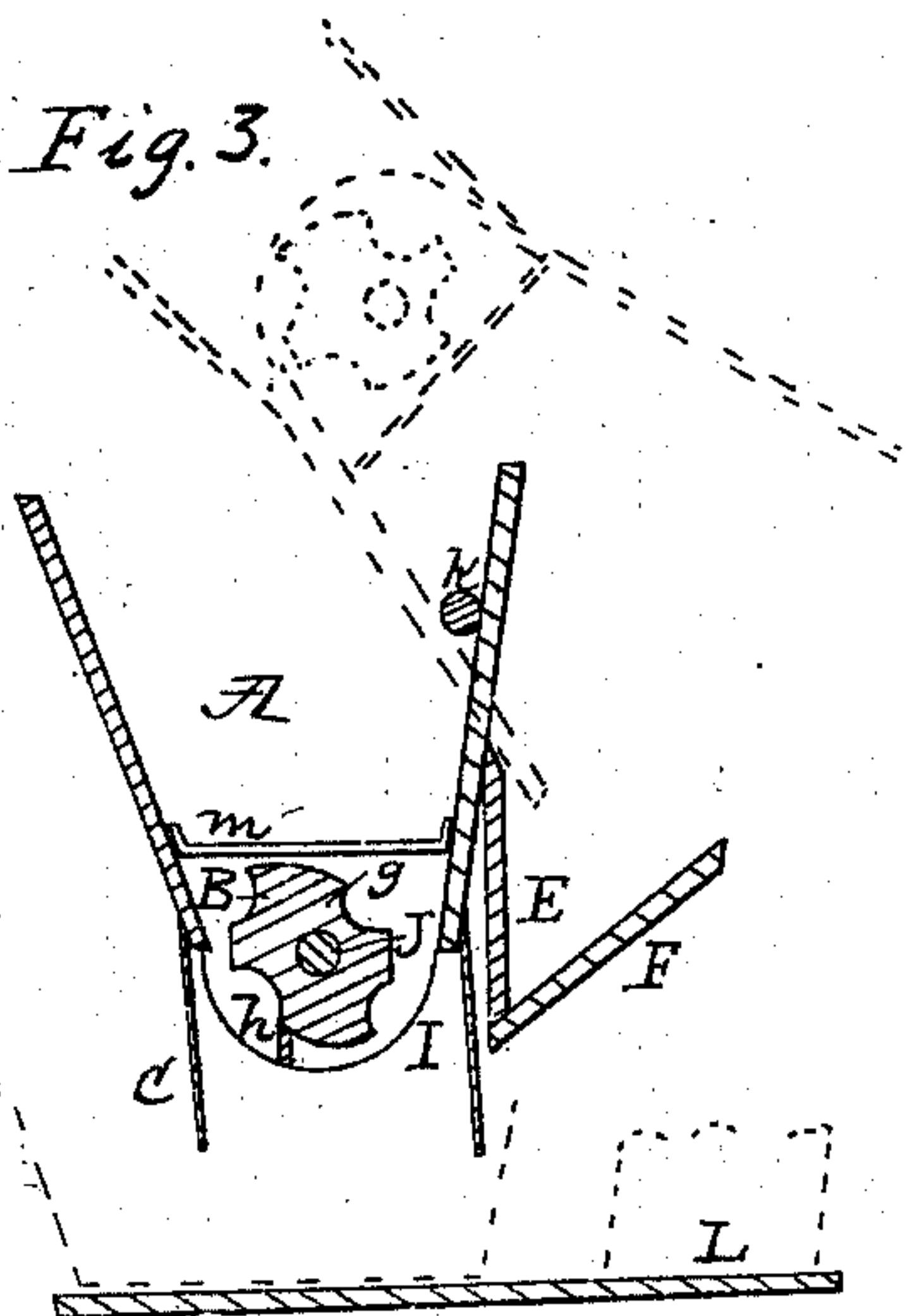
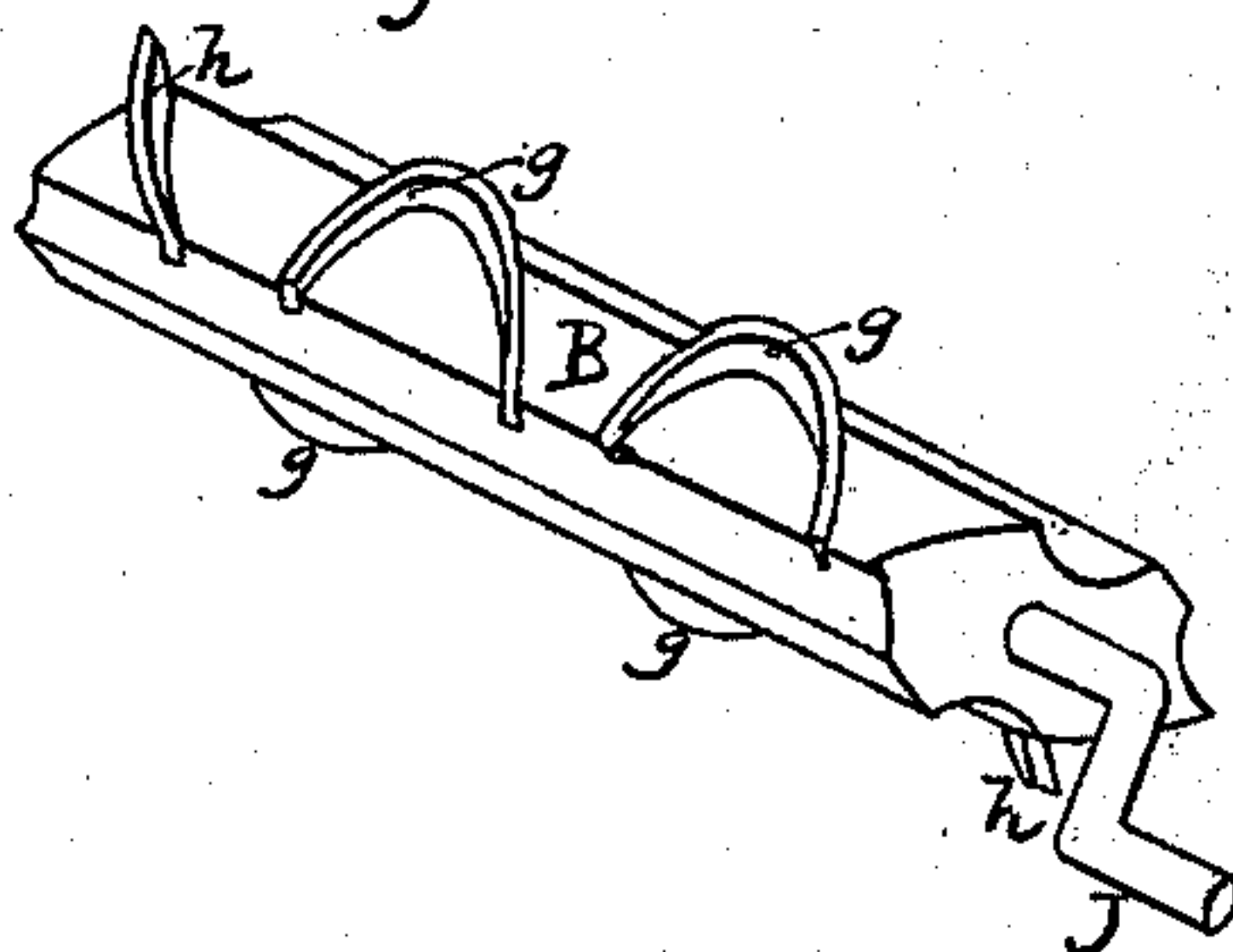


Fig. 2.



Witnesses:
Enos Turner
Allen J. Barnes

Inventor.

Daniel C. Colby

UNITED STATES PATENT OFFICE.

DANIEL C. COLBY, OF NEW YORK, N. Y.

IMPROVED FLOUR-SIFTER.

Specification forming part of Letters Patent No. 48,520, dated July 4, 1865.

To all whom it may concern:

Be it known that I, DANIEL C. COLBY, of the city and county of New York, in the State of New York, have invented certain new and useful Improvements in Flour and Meal Sifters for Family use; and I do hereby declare the following to be a full and exact description of the same, reference being had to the drawings that accompany and make a part of these specifications, in which—

Figure I is a view of the machine in perspective; Fig. II, a view of the shaft detached from the box; Fig. III, a sectional elevation divided transversely.

Letter A represents a box open at the bottom; B, a shaft running longitudinally along the base of the box A; C, a case inclosing the base of the box A, and extending downward keeps the flour from flying about as it leaves the sieve; D D, two standards that sustain the sieve-box A, and, in conjunction with the pieces E and F, form the waste or bran box just in the rear of the box A. E and F are two narrow strips of thin board arranged between and fastened to the standards D D in such manner as to give support thereto, and, in conjunction therewith, to form the waste or bran box, as seen in Fig. III. *g g* and *h* are strips of leather, rubber, or other suitable substance, to press gently upon the surface of the sieve; I, a semi-cylindrical sieve of wire-cloth, and suitably fastened to the lower edges of the ends and sides of the box A; J, the crank with which to revolve the shaft B; *k*, a small straight rod running through the standards D D, and through the end pieces of the box A, as seen in Fig. I; L, a simple board forming a base, and to it the standards D D are firmly fastened. M is a coarse screen placed just above the shaft B in the box A, and so that the rubbers *g g* shall jostle it as they pass, thus causing the flour to fall through, yet leaving any bits of wood, nails, or the like on top of the screen. This screen also prevents the flour or meal from crowding the shaft when a large quantity is thrown into the box A at any one time. *n* is

a handle to steady the box A by when detached from the other parts, as it may be often thus used.

The object of my invention is to secure a desirable family sieve that shall not require the hands to be applied to the flour or meal, shall avoid all the dust usually attendant on the process of sifting flour or meal, and one that also affords a ready way of throwing off the waste when desired.

The box A, the standards D D, and the strips E and F, I make of any light wood from three-eighths to one-half inch in thickness; the shaft B of wood or any other suitable material.

The strips *g g* and *h*, I arrange on the shaft B, angular to the line of rotation of the said shaft for the following reason—viz., so that any little bugs, flies, or worms, or any other thing that should not go through the interstices of the sieve, may be moved one side and not crushed, and be thrown out with the bran or other waste. This is a very important feature, and one heretofore altogether ignored in sieves of this general character.

The screen M may be made of coarse wire-cloth or perforated tin.

The rod *k* sustains the box A at a sufficient height to allow the flour pan or receiver to sit beneath, as seen in Fig. III. On this rod the box A is tilted in order to pour off the waste, as may be seen in Fig. III.

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

1. The use of the shaft B, provided with one or more rows of the strips *g g* and *h*, in combination with the box A and the sieve I, and with or without the screen M, substantially as described, and for the purposes set forth.

2. The combination and arrangement of the box A, the standards D D, the rod *k*, and the strips E and F, as and for the purposes set forth.

DANIEL C. COLBY.

Witnesses:

ENOS TURNER,
ALLAN T. BARNES.