E. BROWN SHAVING SEPARATOR.

No. 181,404.

Patented Aug. 22, 1876.

fig.1.

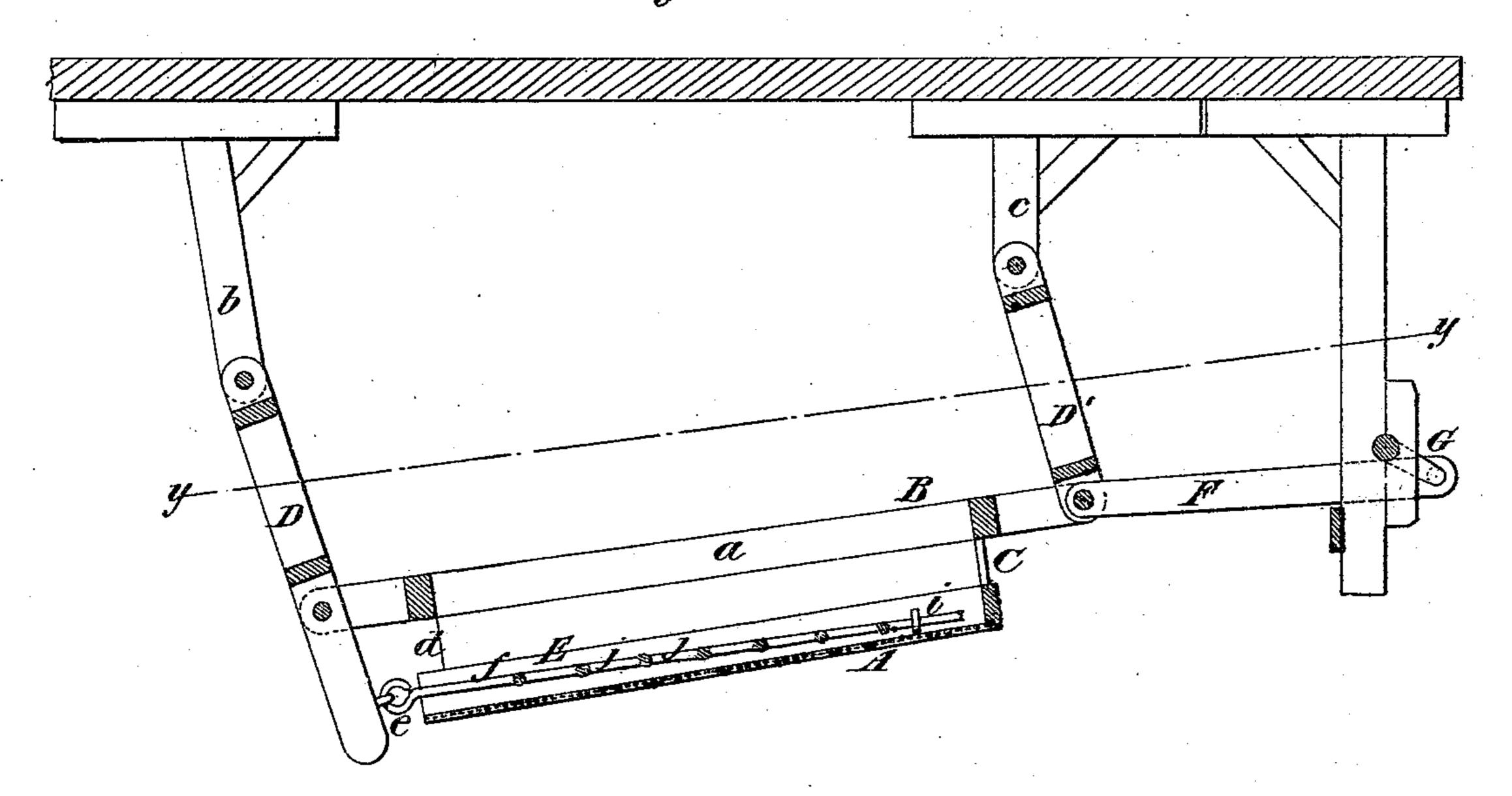
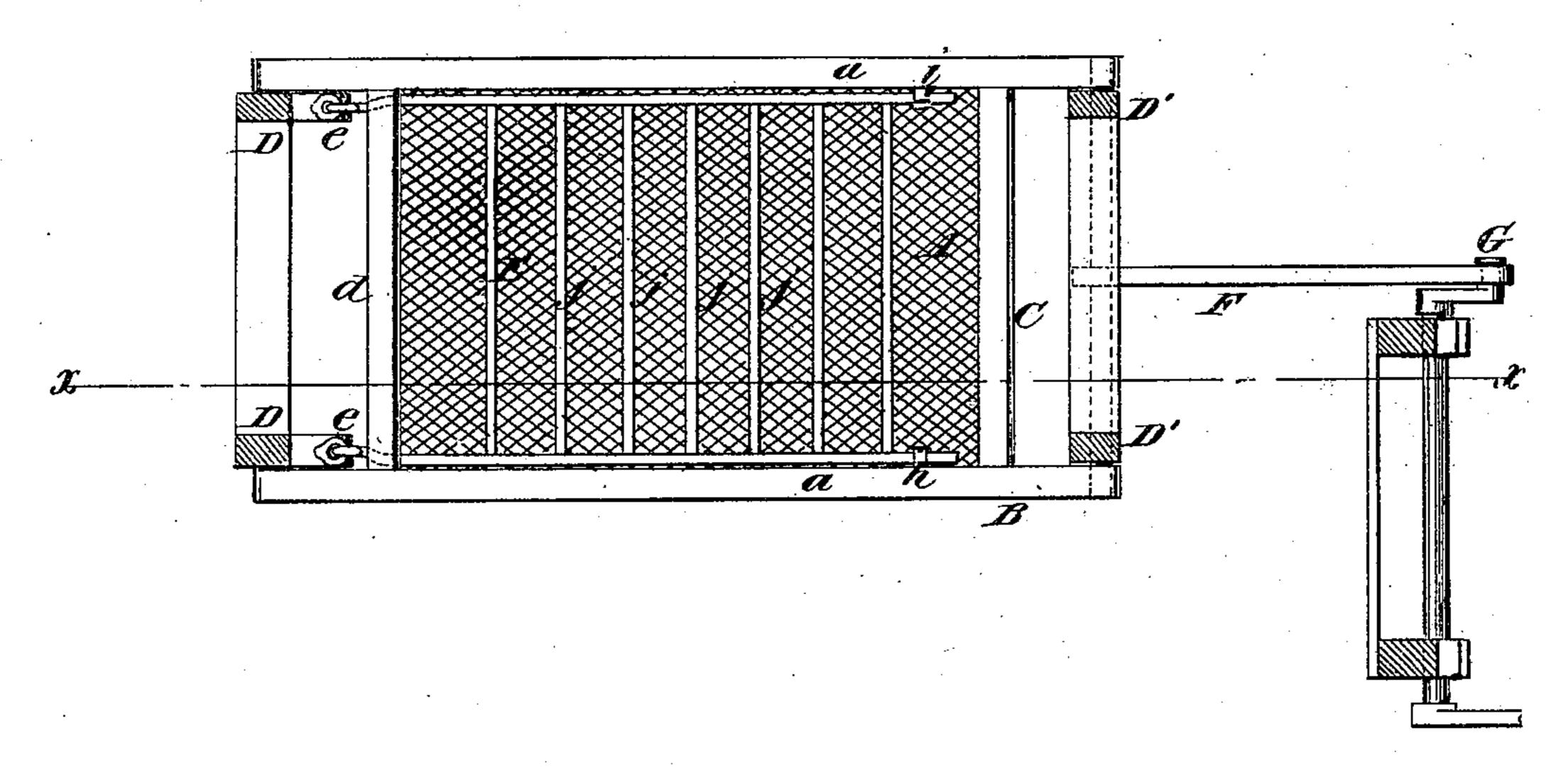


Fig. 2.



WITNESSES: Alex F. Roberts John Greethals Elijah Brown

BY

ATTORNEYS.

United States Patent Office.

ELIJAH BROWN, OF NEW YORK, N. Y., ASSIGNOR TO HIMSELF, EBEN PEEK, AND GILBERT J. BOGART, OF SAME PLACE.

IMPROVEMENT IN SHAVINGS-SEPARATORS.

Specification forming part of Letters Patent No. 181,404, dated August 22, 1876; application filed July 31, 1876.

To all whom it may concern:

Be it known that I, ELIJAH BROWN, in the city, county, and State of New York, have invented a new and Improved Shavings-Separator, of which the following is a specification:

Figure 1 is a vertical section on line x x in Fig. 2. Fig. 2 is a longitudinal section on line y y in Fig. 1.

Similar letters of reference indicate corre-

sponding parts.

The object of my invention is to separate the finer from the coarser shavings made in planing mills and other wood-working machines; and it consists of a screen hung in an inclined position upon two sets of swinging arms, and provided with a divider or frame carrying a number of cross-wires a short distance above the screen. The screen is arranged to take motion from a crank driven by any convenient power, and the divider is arranged to move with the screen, but through a greater space, constantly shifting its position in relation to the screen.

A is a screen or sieve, which is supported by a framing, B. C is a box or chute, formed around the screen, and left open at the lower end d. The side pieces a, forming part of the frame B, are allowed to project beyond the screen at each end, to receive the swinging arms D D', which are pivoted to the side pieces a, and to the hangers b c, or any other convenient support. The hangers b are longer than the hangers c, allowing the screen to pitch downward, so that the open end d is

lowest. The swinging arms D are elongated, and connected by joints e to the sides fg of the divider E, that slides a small distance above the screen. The ends of the rods fg slide in the eyes hi. Attached to the framing of the screen i are cross-bars, connecting the bars fg. F is a connecting rod, that transmits motion from the crank G to the screen. The crank G may be moved by any convenient power.

The shavings are delivered to the upper end of the screen by the ordinary shavings-carrier, or by any other desirable means.

The motion communicated to the screen A by the crank G causes it to move with a lifting and throwing motion, tossing the shavings up, allowing the finer particles to pass through the meshes of the screen; at the same time, the rods fg of the seperating device, by reason of being connected lower down on the arms D than the screen, receive a greater motion than that of the screen, and thoroughly agitate the shavings, making the separation more complete.

Having thus described my invention, I claim as new and desire to secure by Letters Pat-

ent—

The combination of the screen A, swinging arms D D, pivoted to a suitable support, and the divider E, constructed and arranged substantially as specified.

ELIJAH BROWN.

Witnesses:

C. SEDGWICK, GEO. M. HOPKINS.