P. A. PEER.
Fanning-Mills.

No. 203,067. Patented April 30, 1878.

Fig. 2

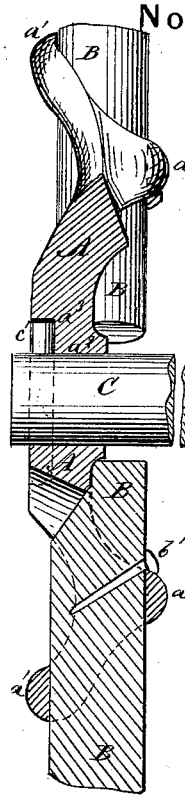


Fig. 1

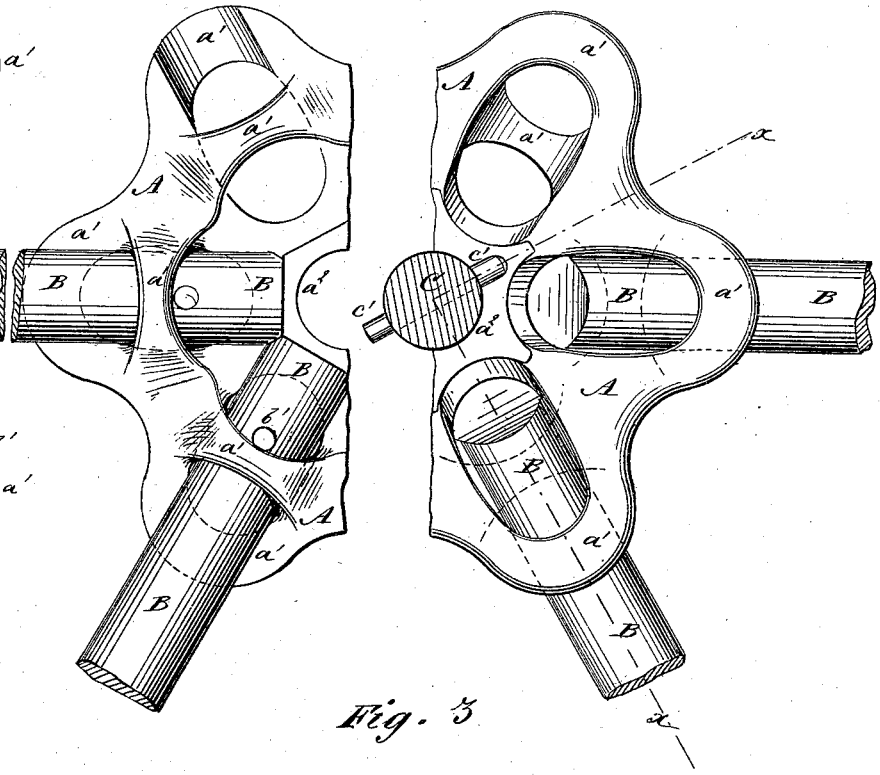


Fig. 3

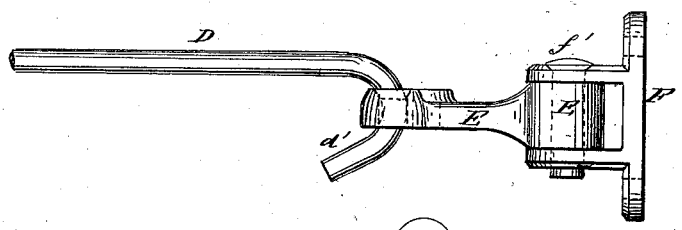
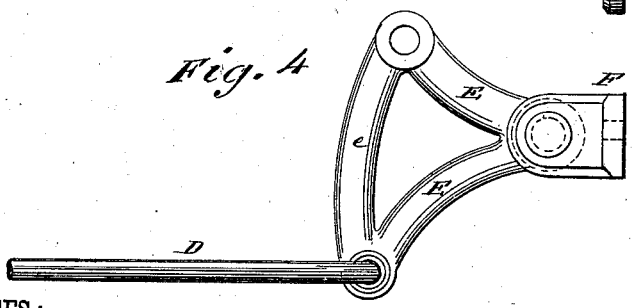


Fig. 4



WITNESSES:

C. Neveux

C. Sedgwick

INVENTOR:

P. A. Peer

BY Munn & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

PERRY A. PEER, OF COMSTOCK, MICHIGAN.

IMPROVEMENT IN FANNING-MILLS.

Specification forming part of Letters Patent No. **203,067**, dated April 30, 1878; application filed February 14, 1878.

To all whom it may concern:

Be it known that I, PERRY A. PEER, of Comstock, in the county of Kalamazoo and State of Michigan, have invented a new and useful Improvement in Fan-Mill Irons, of which the following is a specification:

Figure 1 is a front and a rear view of one-half of the spider or hub. Fig. 2 is a detail section of the same, taken through the line *x x*, Fig. 1. Fig. 3 is a side view of the shaker-iron. Fig. 4 is a top view of the same.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish improved irons for fan-mills, which shall be simple in construction, neat, strong, durable, and convenient in use.

A represents the hub or spider for connecting the arms of the fans to the fan-shaft. The hub or spider A is cast with radial loop-sockets a^1, to receive the ends of the arms B, and with a central hole, a^2, to receive the shaft C. The inner ends of the arms B are cut or shouldered upon one side of their inner ends, to fit over ledges formed, as shown, upon the middle part of the said hub or spider, as shown in the lower part of Fig. 2.

The arms B are secured in place in the sockets a^1 by nails or screws b', driven into them at the inner side of a loop of the sockets a^1, as shown in Figs. 1 and 2. The shaft C is connected with the hub or spider A, and made to carry said hub or spider with it in its revolution by a pin, c', passed through the said shaft, and the ends of which project to enter notches a^3 in the side of the said hub or spider A, as shown in Fig. 2.

In putting the fans together the arms B are inserted in the sockets a^1, and secured by the nails or screws b'. The shaft C is passed through the holes a^1, and the pins c' are driven into their holes. The hubs or spiders A are then adjusted upon the shaft C to bring the pins c' into the notches or recesses a^3, and the fans are nailed or otherwise secured to the outer ends of the arms B, which locks all the parts securely in place. D is the connecting-rod, one end of which is pivoted to a crank formed upon the fan-shaft C. The other end of the connecting-rod D has a curved or U-shaped hook, d', formed upon it, which is hooked into an eye formed in the end of the long arm of the shaker or angular lever E. The peculiar form of the hook d' causes it to work easy in its eye, as the other end of the rod D is moved up and down by its crank. The other arm of the lever or shaker E is made shorter, and has an eye formed in it to receive the hook, by which it is connected to the shoe that carries the screens. The arms of the shaker E are connected at their outer ends by a bar, e', to strengthen them. In the angle of the shaker E is formed an eye which fits into the space between the two lugs formed upon the plate F, where it is pivoted or hinged by a pin, f'. The lug-plate F is secured to a post of the fan-mill frame.

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

The hub or spider A, cast with radial loop-sockets a^1, to receive the arms B, with a central hole, a^2, to receive the shaft C, and recesses a^3, to receive the pin c', that connects it with said shaft, each arm resting at the rear against a shoulder of the hub, and secured by a nail on the inside of sockets a^1, substantially as herein shown and described.

PERRY A. PEER.

Witnesses:

G. M. PEER,

R. B. WALLACE.