

H. C. GILBERT.
Evaporating Pan.

No. 62,025.

Patented Feb. 12, 1867.

Fig. 1

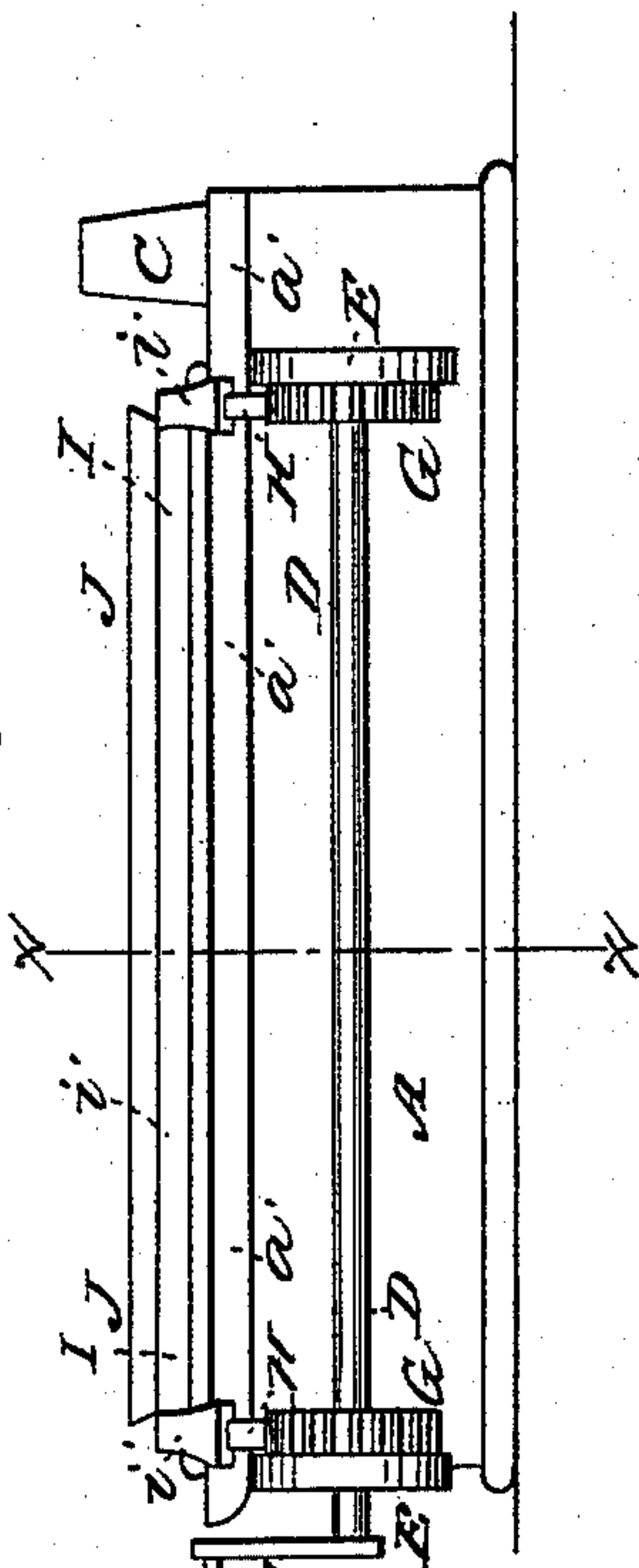
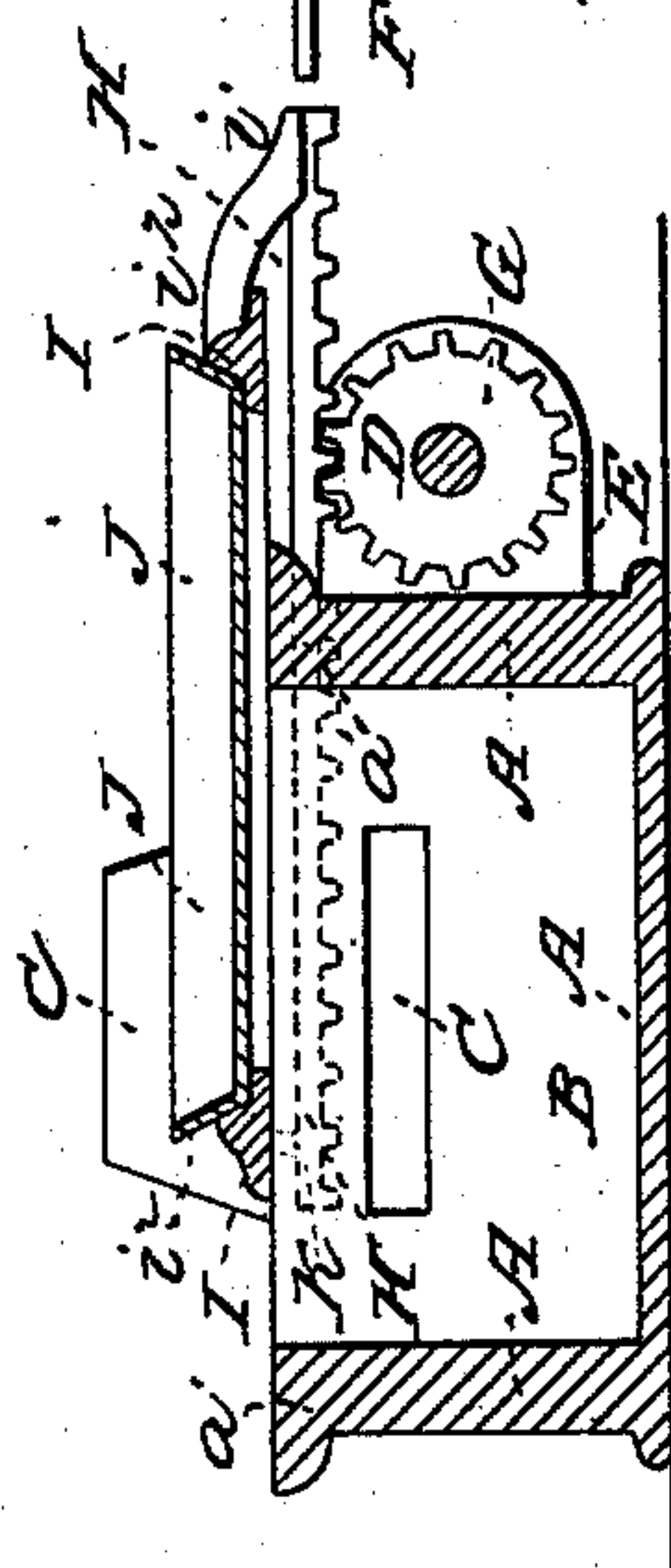


Fig. 2



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H. C. GILBERT, OF CAMBRIDGE, VERMONT.

Letters Patent No. 62,025, dated February 12, 1867.

IMPROVED EVAPORATOR.

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, H. C. GILBERT, of Cambridge, in the county of Lamoille, and State of Vermont, have invented a new and useful improvement in Evaporator; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side view of my improved evaporator.

Figure 2 is a vertical section of the same, taken through the line *x x*, fig. 1.

Similar letters of reference indicate like parts.

My invention has for its object to furnish an improved means by which the evaporating or drying-pan may be removed wholly or partially from over the fire, and it consists in the combination of the shaft, cog-wheels, racks, and sliding frame with each other, and with the top of the furnace, when said parts are constructed and arranged substantially in the manner hereinafter more fully described.

A is the furnace, B the fire-chamber, and C the smoke flue, about the construction of which parts there is nothing new. *a'* is the top of the furnace, the central part of which, directly over the fire-chamber B, is cut away, as shown in fig. 2. D is a shaft, which revolves in bearings, E, attached to the side of the furnace A. To one end of the shaft D is attached a crank, F, by means of which the said shaft is operated. G are cog-wheels, attached to the shaft D, the teeth of which mesh into the teeth of the racks H, as shown in fig. 2. The racks H slide back and forth, as they are operated by the cog-wheels G, in grooves or channels formed for their reception directly beneath or in the lower part of the top *a'* of the furnace, said grooves or channels being located between the ends of the furnace A and the ends of the fire-chamber B. I is the frame that supports the evaporating or drying-pan J, and which slides back and forth upon the top *a'* of the furnace. Upon the forward edge of the frame I are fastened two downwardly projecting arms, *i*, the lower ends of which are securely attached to the forward ends of the racks H, as shown in figs. 1 and 2, so that the frame I may be moved back and forth by the racks H. The rear edge of the frame I is connected to the rear ends of the racks H by screw-bolts K, one of which is shown in fig. 2. As the frame I and racks H move back and forth, the bolts K pass along slots formed through the top *a'* of the furnace. The width of these slots is considerably less than the width of the racks H, so that, however far the racks and frame may be drawn forward, it will be impossible for the said frame to be overbalanced or tip. The edges of the bottom of the pan J rest upon the top of the frame I, and the said pan is kept in its place upon said frame by upwardly projecting ledges, *i'*, formed upon it, as shown in fig. 2. By this construction the evaporating or drying-pan J may be removed wholly or partially from over the fire, as the progress of the operation may render advisable, without at all disturbing the contents of the said pan.

I claim as new, and desire to secure by Letters Patent—

The combination of the shaft D, cog-wheel G, racks H, and sliding frame I, with each other and with the top *a'* of the furnace A, when said parts are constructed and arranged substantially as herein described and for the purpose set forth.

H. C. GILBERT.

Witnesses:

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