

C. D. PAGE.

Lime Kiln.

No. 22,239.

Patented Dec. 7, 1858.

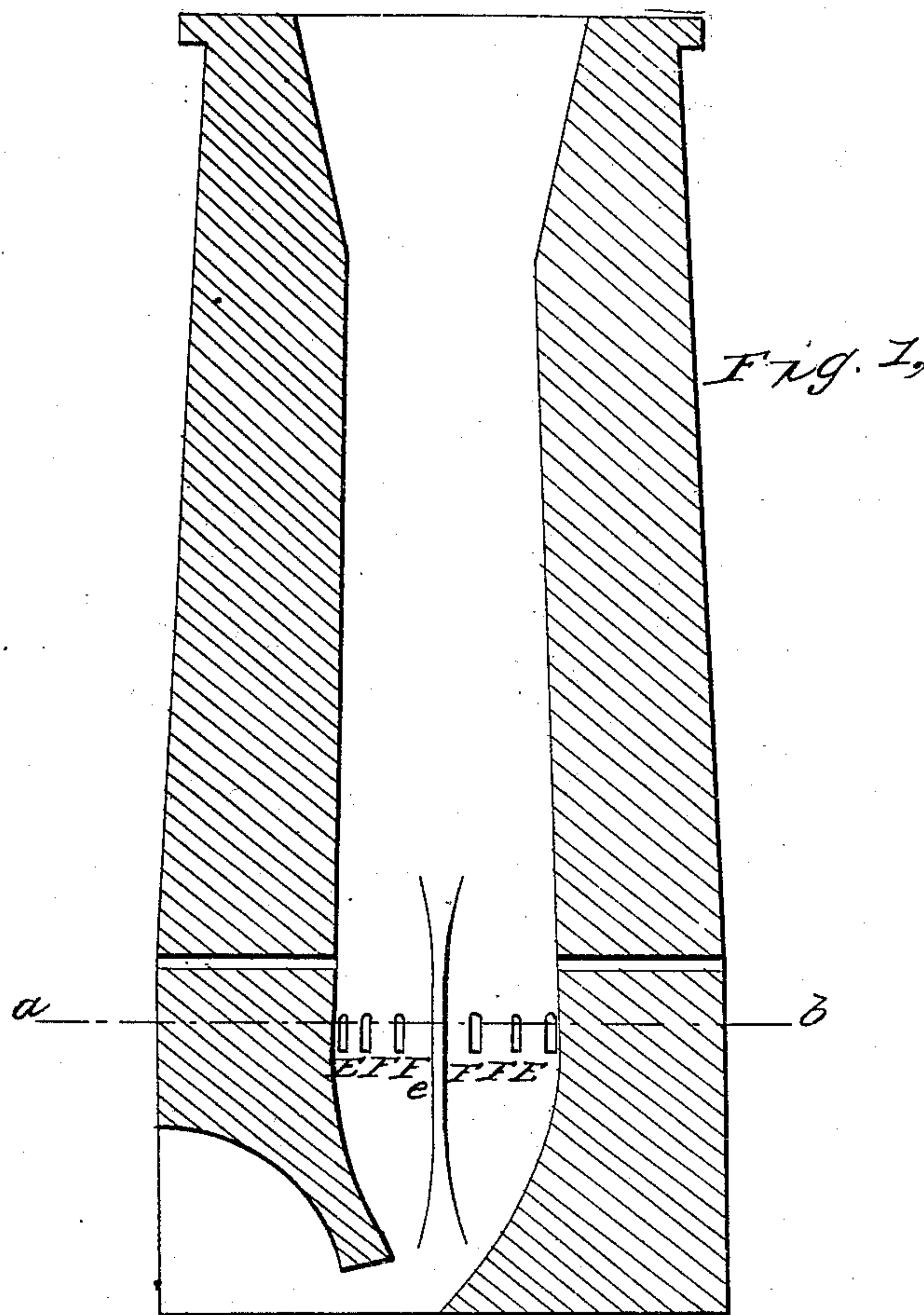
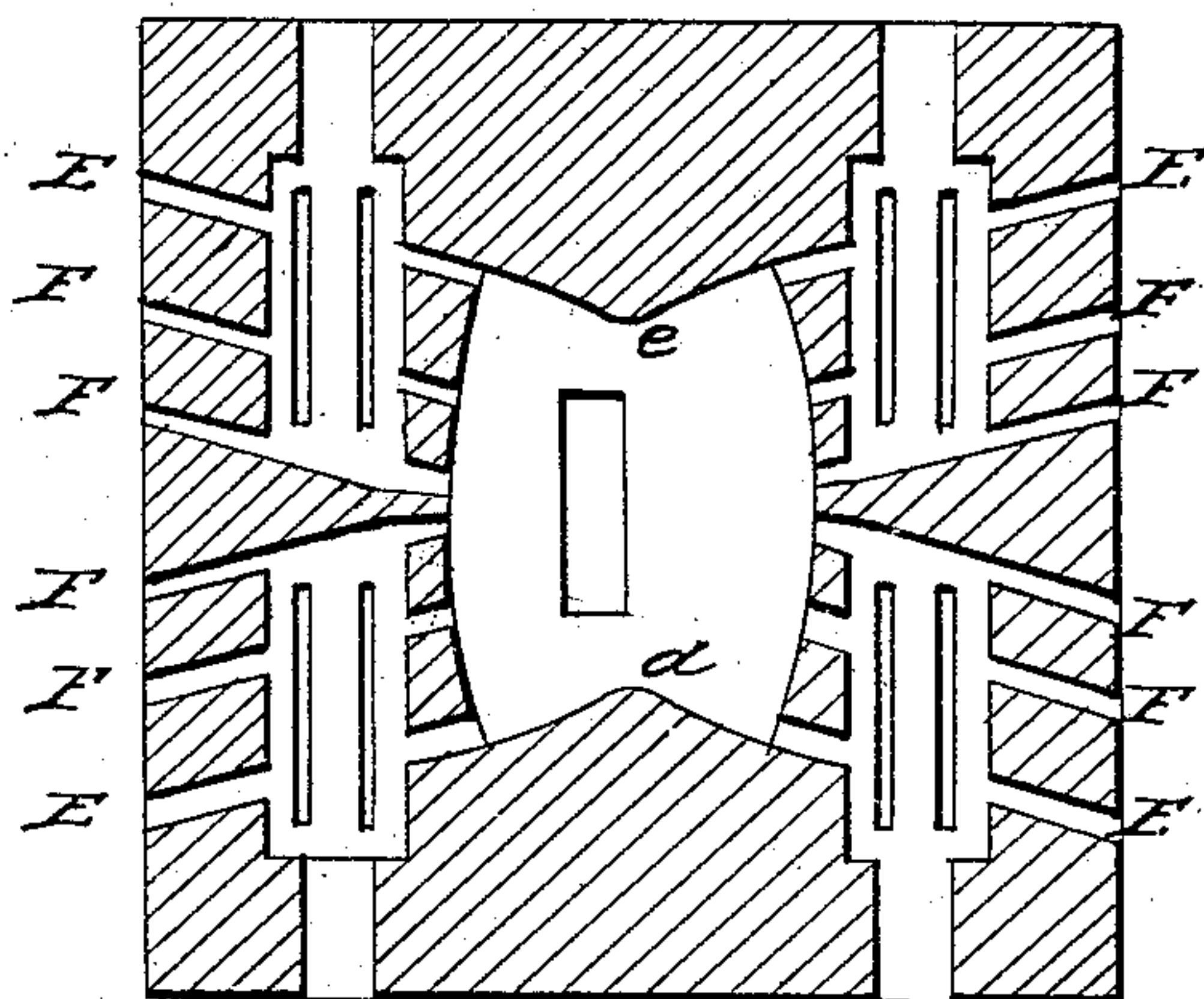


Fig. 2,



UNITED STATES PATENT OFFICE.

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LIMEKILN.

Specification forming part of Letters Patent No. 22,239, dated December 7, 1858; Reissued March 8, 1870, No. 3,877.

To all whom it may concern:

Be it known that I, CLARK D. PAGE, of the city of Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Limekilns, of which the following is a full and accurate description, reference being had to the accompanying drawings, making part of this specification, and to the letters of reference marked thereon, same letters referring to like parts in both figures.

Of said drawings Figure 1 is a vertical section of my improved lime kiln, and Fig. 2 is a horizontal section of the same on line *a b* Fig. 1.

The nature of this invention consists in so constructing the cupola and arranging the flues that a portion of the flame and hot gases arising from the combustion of the fuel will be deflected toward the center after passing around the outside of the limestone and another portion will pass directly to the center, thus causing all the limestone to become equally and intensely heated. Thus on inspecting Fig. 2 it will be seen that the flues *F* pass in diagonally but directly toward the center of the kiln, while the flues *E* passing inward at a tangent to the curved projections

e and *d*, the heated gases are deflected toward the center by the curved sides of the kiln, (which is here contracted in the manner shown in plan in Fig. 2,) so as to deflect or guide all the heat from the flues *E* to the center of the kiln where it is most needed. In thus passing through and around the limestone at the sides however it necessarily heats it sufficiently to calcine it and thus a high and equable temperature is maintained throughout all the limestone at the level of the entering in of the flues. The projections at *e* and *d* which deflect the heat to the center are continued for a short distance above and below this level and are then gradually merged in the general curve of the interior of the kiln as will be seen from Fig. 1.

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

The construction of the cupola with the sectional form shown in Fig. 2 combined with the arrangement of the flues *E E* and *F F F* substantially as described.

CLARK D. PAGE.

Witnesses:

JOHN PHIN,
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