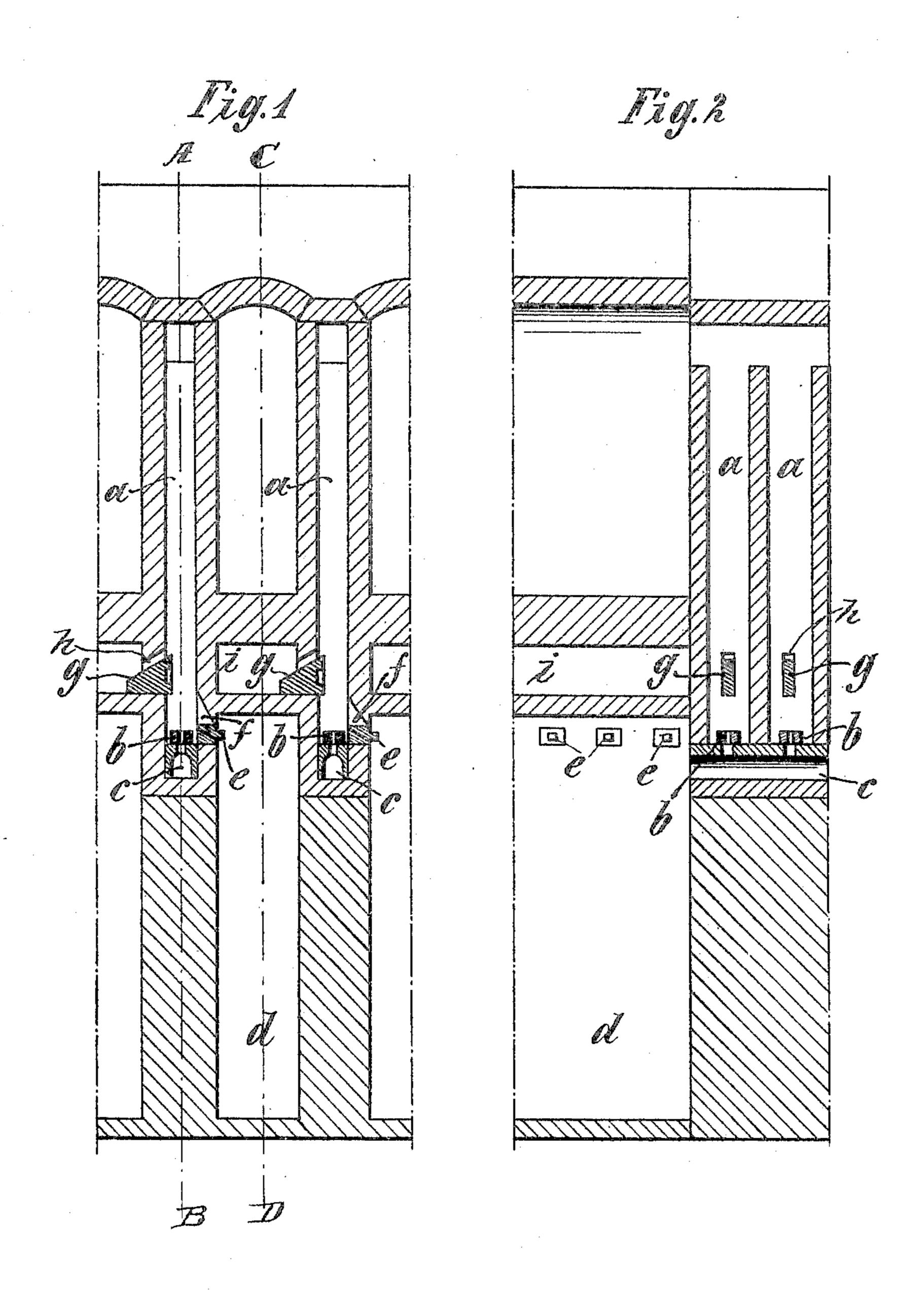
F. PALLENBERG & F. W. SANDMANN.

COKING OVEN.

APPLICATION FILED SEPT. 19, 1904.



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UNITED STATES PATENT OFFICE.

FRANZ PALLENBERG AND FRIEDRICH WILHELM SANDMANN, OF DORT-MUND, GERMANY.

COKING-OVEN.

No. 797,703.

Specification of Letters Patent.

Patented Aug. 22, 1905.

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To all whom it may concern:

Be it known that we, Franz Pallenberg and Friedrich Wilhelm Sandmann, citizens of the German Empire, and residents of Dortmund, German Empire, have invented new and useful Improvements in Coking-Ovens, of which the following is a full, clear, and exact description.

The present invention relates to coking ovens or furnaces with vertical heating-flues in which the gas-feed takes place beneath the furnace-wall through one or more ducts or passages. In such furnaces as heretofore made the nozzles or jets may be removed for examination either through an opening at the upper part of the furnace or downwardly through the gas-distributing passage underneath the furnace-wall.

In the accompanying drawings, Figure 1 is a vertical section through a part of the coking-oven according to the present invention, and Fig. 2 is a section taken partly on lines A B and C D of Fig. 1.

The coking oven or furnace is so constructed that each vertical flue a is provided with its own nezzle or jet b. The gas is fed to the jets b through channels c, which are arranged beneath the flues a. The said jets b may be accessible through openings f, which establish communication between flues a and the passages d, arranged laterally of the gas-distributing passages. Each opening may be closed by a stopper or plug e, so that the communication between the passages may be shut off. On removing the stopper or plug the nozzle or jet may be laterally withdrawn for examination or for other purposes. Opposite to each opening f, but at a higher level, is ar-

ranged an opening h, which may be regulated by a slide or damper g. Through this opening h air is admitted from the channels i to the flues a. The slides or dampers g are accessible through the said openings f from the passages d, so that the supply of air necessary for combustion may be regulated. By controlling the air and gas supply in each vertical flue an economical combustion can be obtained in each flue.

We claim as our invention—

1. In a coking-oven the combination of vertical flues, gas-distributing channels beneath the said flues, jets for feeding gas to the said flues, passages parallel to the gas-distributing channels, means adjustable from said passages for introducing air into the flues, openings connecting the said flues and passages and rendering the said jets accessible, and means for closing the said openings, substantially as described.

2. In a coking-oven the combination of vertical flues, gas-distributing channels beneath the said flues, jets for feeding gas to the said flues, passages parallel to the gas-distributing channels and communicating with the flues by openings, stoppers for closing the said openings, openings for feeding air from channels into the flues, slides for regulating the air-supply, substantially as described.

In testimony whereof we affix our signatures in the presence of two witnesses.

FRANZ PALLENBERG.
FRIEDRICH WILHELM SANDMANN.

Witnesses:

Otto König, Carl Neuhaus.