

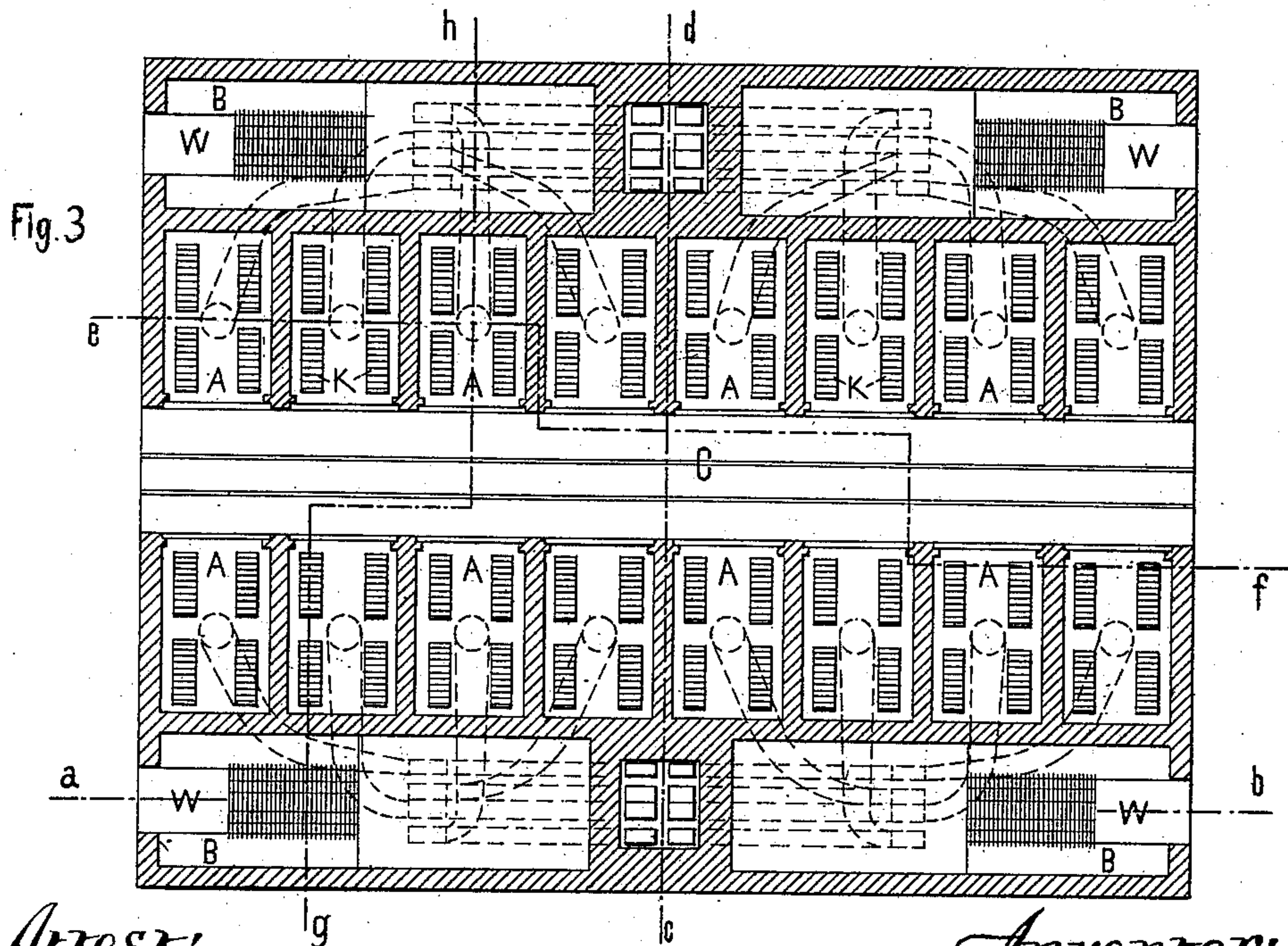
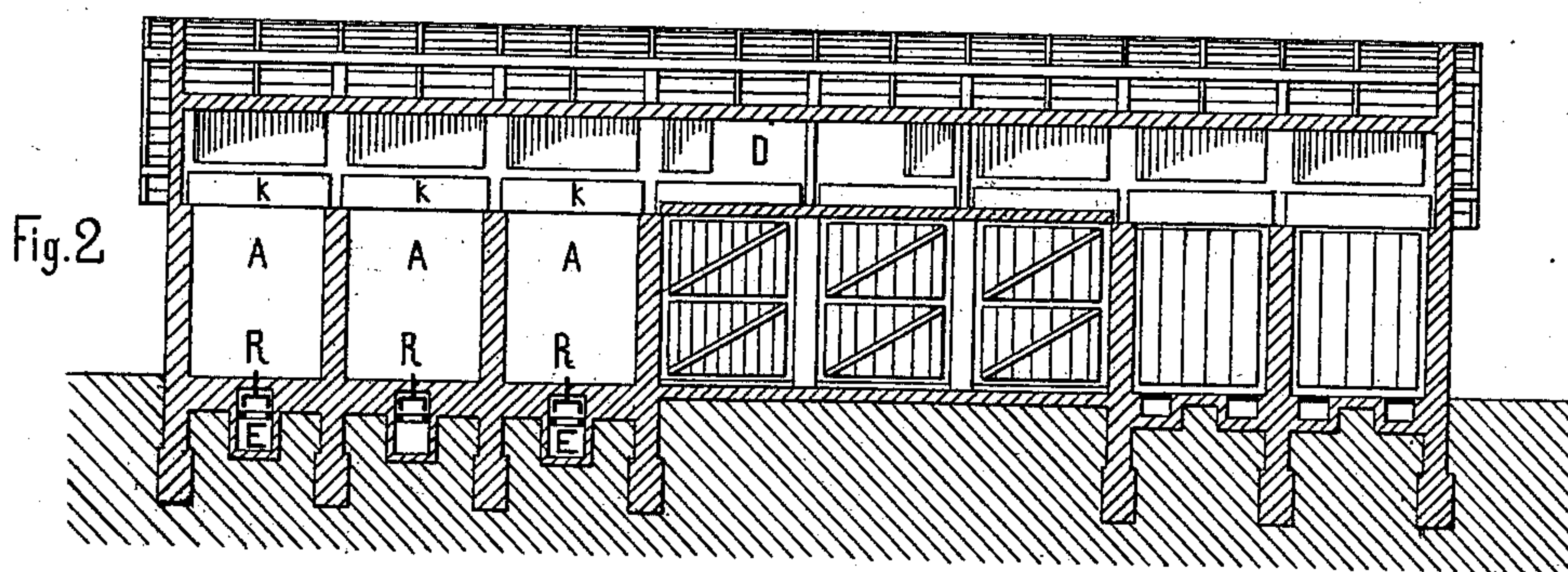
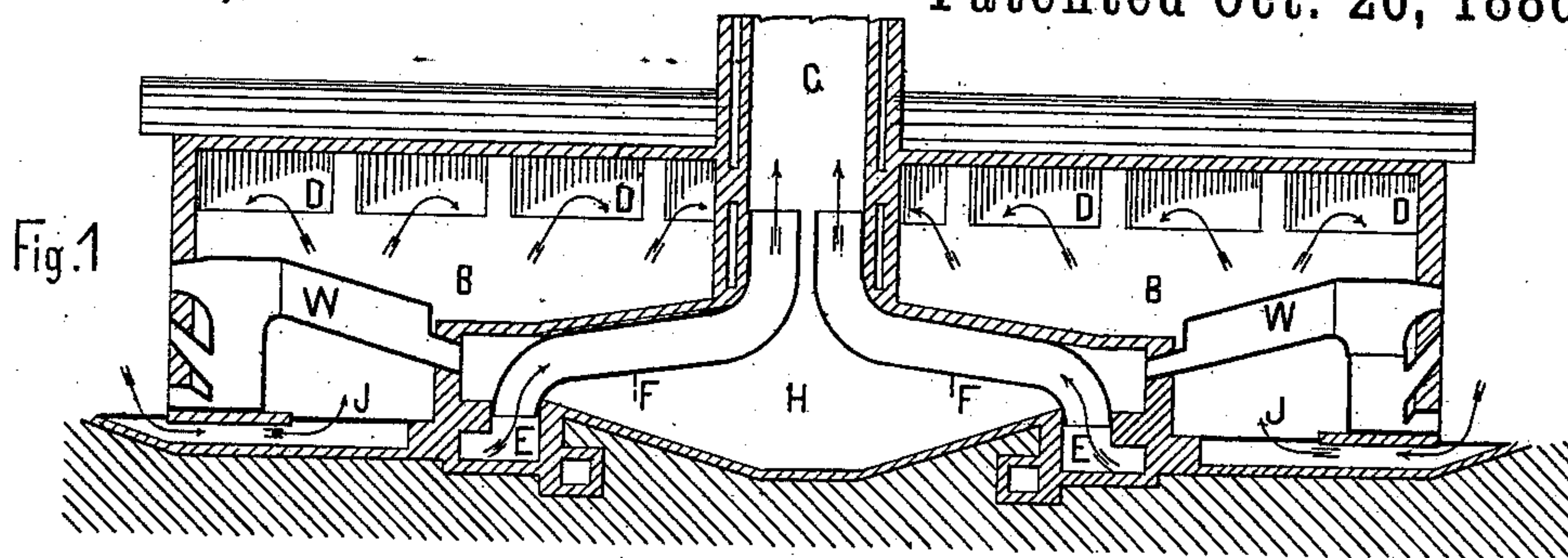
(No Model.)

2 Sheets—Sheet 1.

P. SIMONS.
DRYING HOUSE.

No. 351,662.

Patented Oct. 26, 1886.



Attest:
F. A. No. 1111
Geo. S. Wheelock

Inventor:
Paul Simons.
By Knight & Bros.
Atty's.

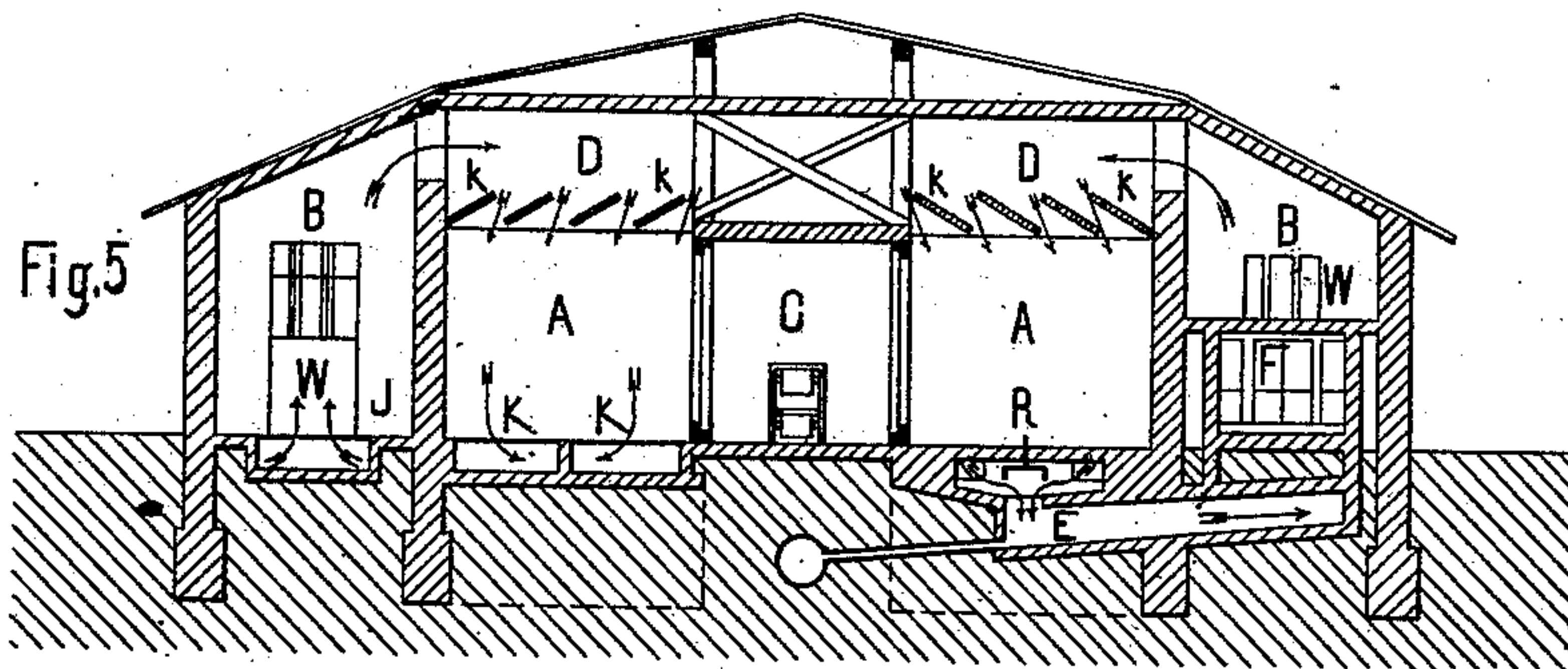
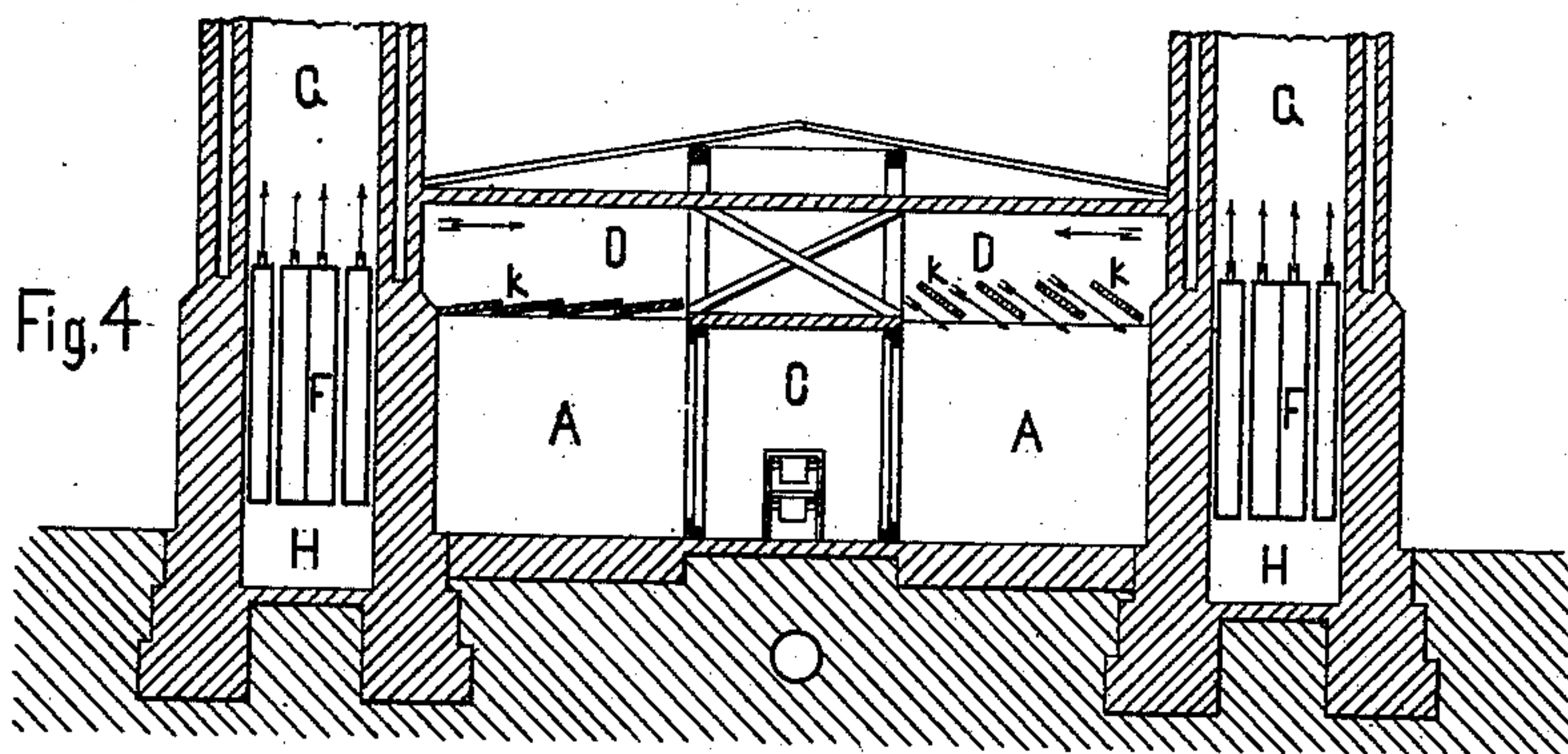
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2 Sheets—Sheet 2.

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UNITED STATES PATENT OFFICE.

PAUL SIMONS, OF DARMSTADT, HESSE, GERMANY.

DRYING-HOUSE.

SPECIFICATION forming part of Letters Patent No. 351,662, dated October 26, 1886.

Application filed May 26, 1886. Serial No. 203,311. (No model.)

To all whom it may concern:

Be it known that I, PAUL SIMONS, engineer, a subject of the Grand Duke of Hesse, and residing in Darmstadt, Grand Duchy of Hesse, German Empire, have invented new and useful Improvements in Drying-Houses, of which the following is a specification.

My invention relates to houses for drying bricks, tiles, potter's-ware, &c., preparatory to their burning; and the improvements consist in the combination, with a series of separate drying-chambers, of an air-heating apparatus, a hot-air-distributing chamber extending over the drying-chambers, means for causing the heated air to pass through the drying-chambers from the top to the bottom, and for regulating the current of air in any chamber independently of the other ones.

On the accompanying two sheets of drawings is represented a drying-house carried out according to my invention. Figure 1 is a vertical section thereof on line *a b* of Fig. 3. Fig. 2 is a like section on the line *e f*. Fig. 3 is a sectional plan; Fig. 4, a transverse section on line *c d*, and Fig. 5 a transverse section on the line *g h* of Fig. 3.

In the house shown by the drawings the drying-chambers A are placed in two rows, and they communicate by doors with a passage, C, for the conveyance of the ware to and away from the chambers. At the side of either of the said rows two heating-chambers, B, are arranged, each of which is provided with a stove, W, adapted to heat the air entering at I, and connected by a flue, H, with the chimney G.

Above all the chambers A there is a common chamber, D, communicating as well with the chambers B as with the chambers A, and having the purpose to uniformly distribute the heated air over the latter. At the bottom each chamber A communicates through grates K with a channel, E, leading to one of the chimneys G. Preferably a portion of the channels E is formed by metal pipes F, conducted through the flue H, for the purpose of increasing the draft in the channels and through the chambers A. This draft may be regulated and stopped by flap-valves R, arranged between the chambers D and A, and by valves R in the channels E.

By means of the construction and combination of the parts constituting the said drying-house, the green bricks, &c., may be dried during any kind of weather and at any temperature of the outer air. The drying takes place uniformly, and it may be regulated with facility, according to the nature of the ware.

I claim as my invention—

1. The combination, with a drying-chamber, A, of a heating-chamber, B, provided with a stove, W, an air-distributing chamber, D, extending over the chamber A and communicating with the chambers A and B, chimney G, and means, substantially as described, of communication between the bottom of chamber A and the said chimney, substantially as and for the purposes set forth.

2. The combination, with the drying-chamber A, heating-chamber B, stove W, air-distributing chamber D, and chimney G, of the flue H and the channel E, extending from the chamber A to the chimney, a portion of said channel being formed by a pipe, F, conducted through the flue H, substantially as and for the purposes set forth.

3. The combination, with the drying-chamber A, heating-chamber B, stove W, air-distributing chamber D, chimney G, and channel E, of the valves *k* between the chambers A and D, and the valves R in channel E, substantially as specified.

4. The combination, with a series of drying-chambers, A, of the heating-chambers B, the air-distributing chamber D, extending over the chambers A and communicating with the chambers A and B, chimney G, and means, substantially as described, of communication between the bottom of the chambers A and said chimney, substantially as and for the purposes set forth.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

PAUL SIMONS.

Witnesses:

LUDWIG SUNG,
WALTER H. SCHULZ.