

(No Model.)

L. KÜPPER.
CONSTRUCTION OF WALLS.

No. 528,636.

Patented Nov. 6, 1894.

Fig. 1.

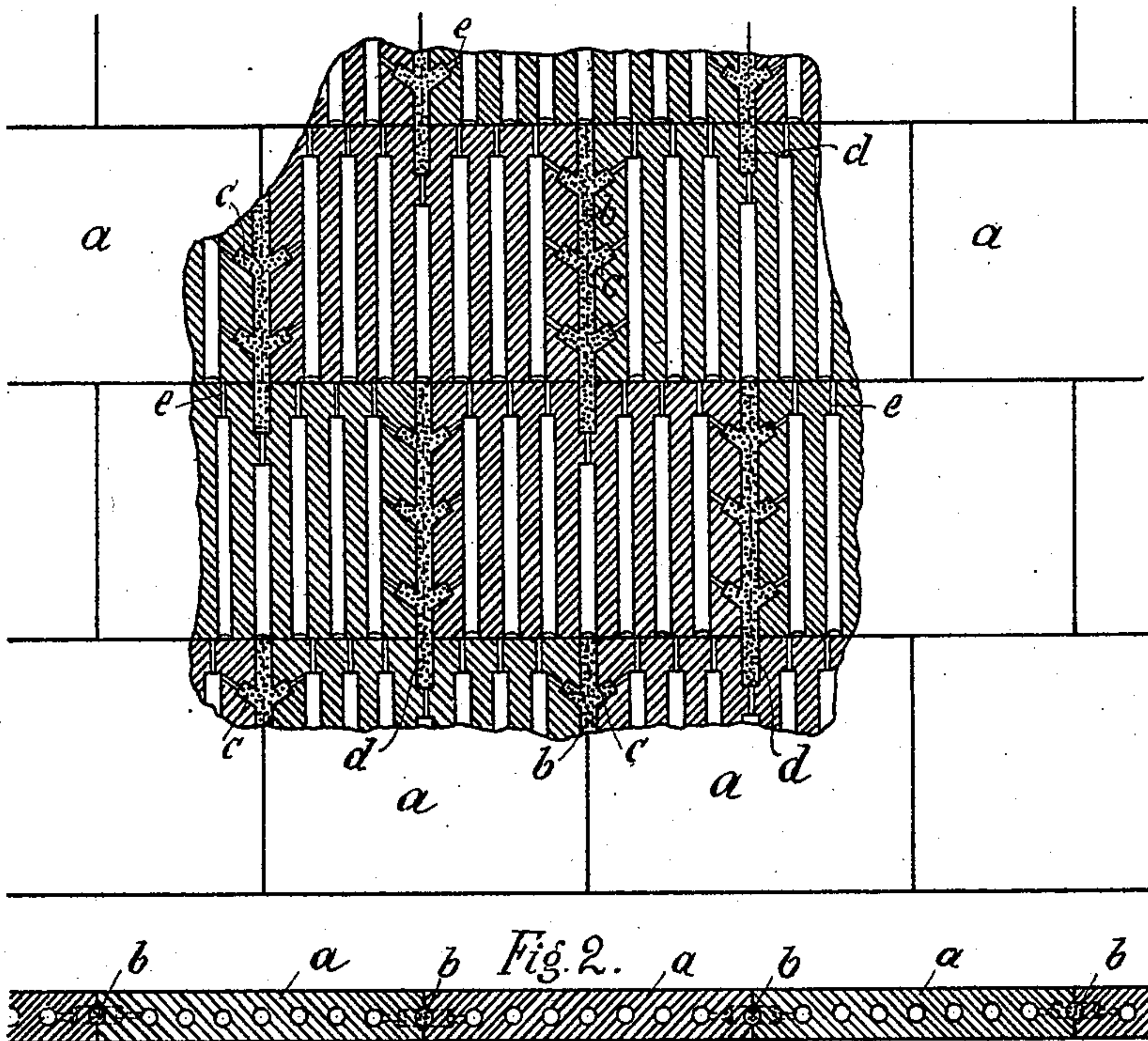


Fig. 2.



Fig. 3.

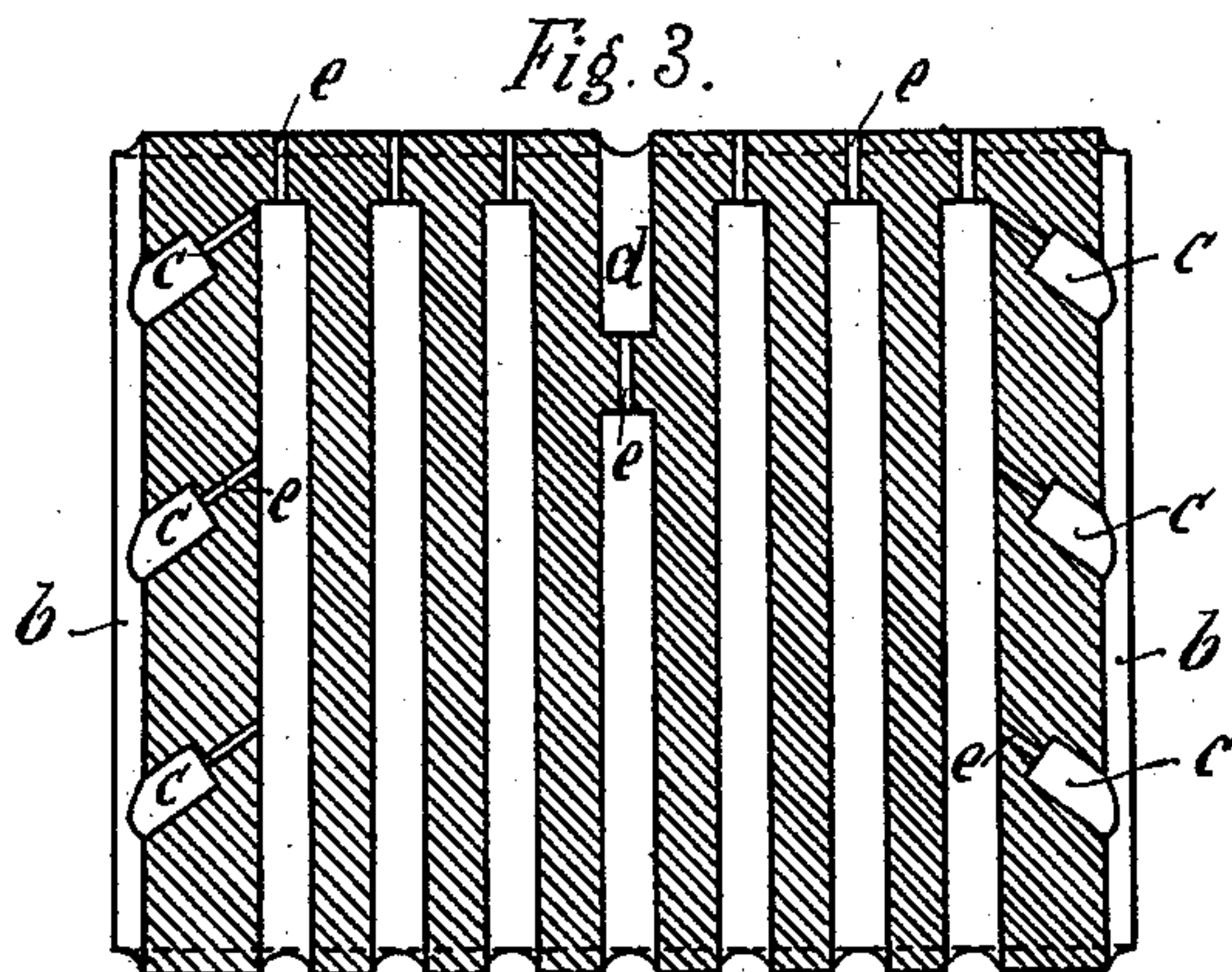
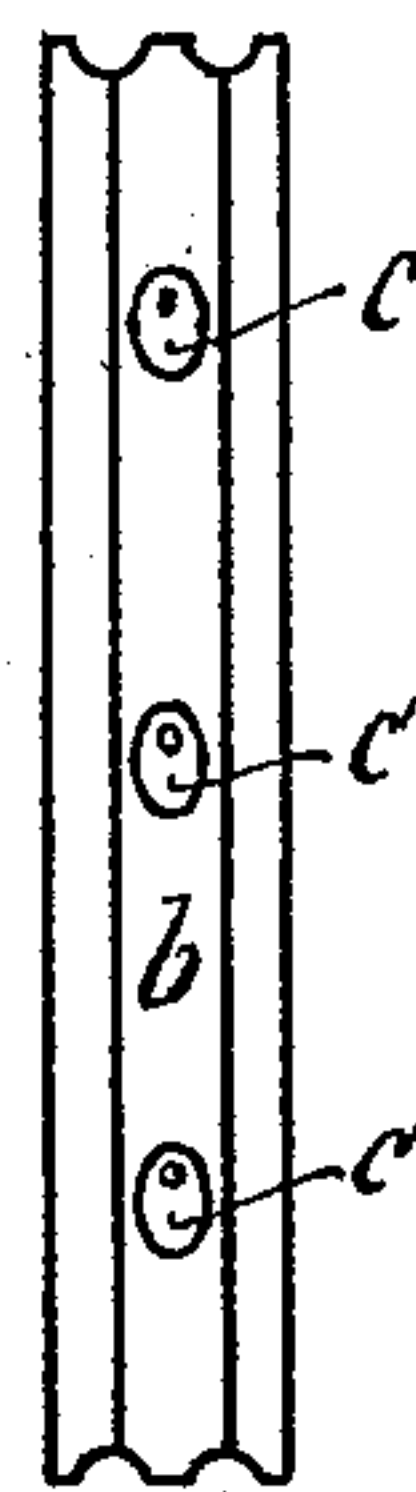


Fig. 4.



Witnesses:
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UNITED STATES PATENT OFFICE.

LAMBERT KÜPPER, OF AIX-LA-CHAPELLE, GERMANY.

CONSTRUCTION OF WALLS.

SPECIFICATION forming part of Letters Patent No. 528,636, dated November 6, 1894.

Application filed June 25, 1894. Serial No. 515,798. (No model.) Patented in Luxemburg, March 28, 1894, No. 2,001, and in Belgium April 16, 1894, No. 109,207.

To all whom it may concern:

Be it known that I, LAMBERT KÜPPER, manufacturer, a citizen of the German Empire, residing at Aix-la-Chapelle, in the Kingdom of Prussia, Germany, have invented certain new and useful Improvements in the Construction of Walls, (upon which I have received patents in the following countries: Grand Duchy of Luxemburg, March 28, 1894, No. 2,001, and Belgium, April 16, 1894, No. 109,297,) of which the following is a specification.

My invention relates to improvements in the construction of building-walls. I attain these objects by the combination illustrated in the accompanying drawings, in which—

Figure 1 shows the front view of the building-wall, partly in section, to illustrate the new construction. Fig. 2 is a longitudinal sectional view of the building-wall; Fig. 3, a detail vertical section of a single plate; Fig. 4, a side view of the same.

Similar letters of reference indicate corresponding parts throughout the several views. The building-wall, as shown in Figs. 1 and 2, is composed of plates *a* united together, which are provided upon their vertical edges with grooves *b* from which a number of short channels or perforations *c* branch off laterally toward the inside of the plates. On connecting the plates together, the channels formed by the grooves *b* at the edges which coincide with each other and with the upper part *d* of the median channel of the adjacent lower plate are filled together with their ramifications *c* and the channel part *d* with a binding material. In this way an utmost solid and firm connection of the plates is created and through the action of the ramifications the plates are sustained in their vertical edges. Thus, a reciprocal displacement of the

same is impossible and the wall forms a steady ensemble by which means the pressure of the same on the supports is released. The other vertical channels existing in the plates serve to the insulation and deadening of sound.

For the purpose of allowing the air inclosed in the channels *c* and the upper part *d* of the median channel to escape during the filling with binding material, the channels at their end surfaces are supplied with small openings *e*, which are ending in the adjacent insulation channels.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A building-wall composed of plates *a* provided in the middle with a channel divided in two or more parts and upon their vertical edges with grooves *b* from which a number of short channels *c* branch off laterally toward the inside of the plates, substantially as described.

2. A building wall composed of plates *a* the grooves upon their vertical edges together with their ramifications and the upper part *d* of the median channel of the adjacent lower plate being filled with a binding material, substantially as set forth and for the purpose specified.

3. A board or plate for building-walls whose grooves upon their vertical edges are provided with ramifications directed toward the inside of the plate, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in the presence of two subscribing witnesses.

LAMBERT KÜPPER.

Witnesses:

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Both of Aix-la-Chapelle.