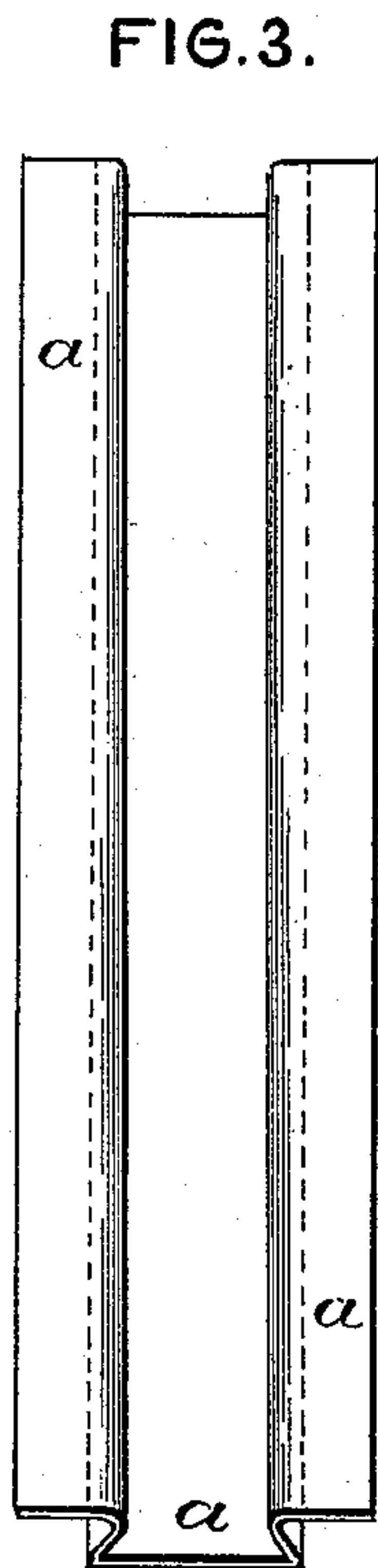
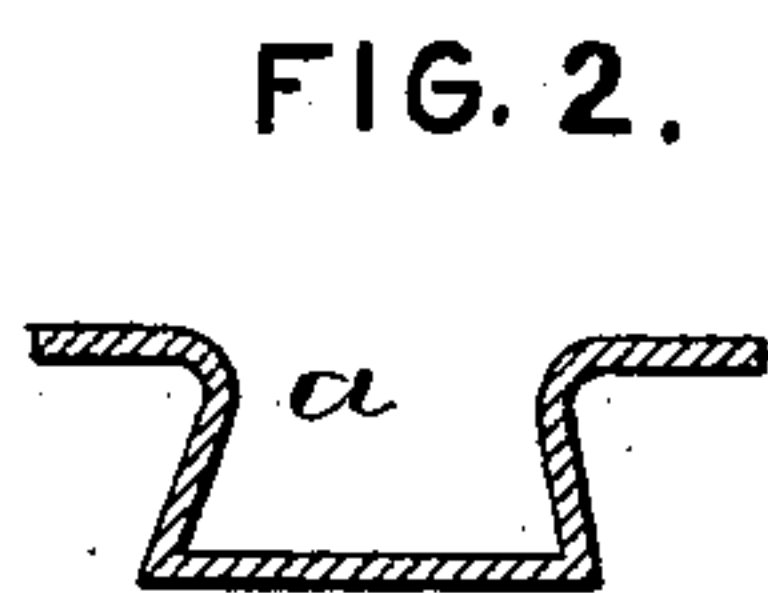
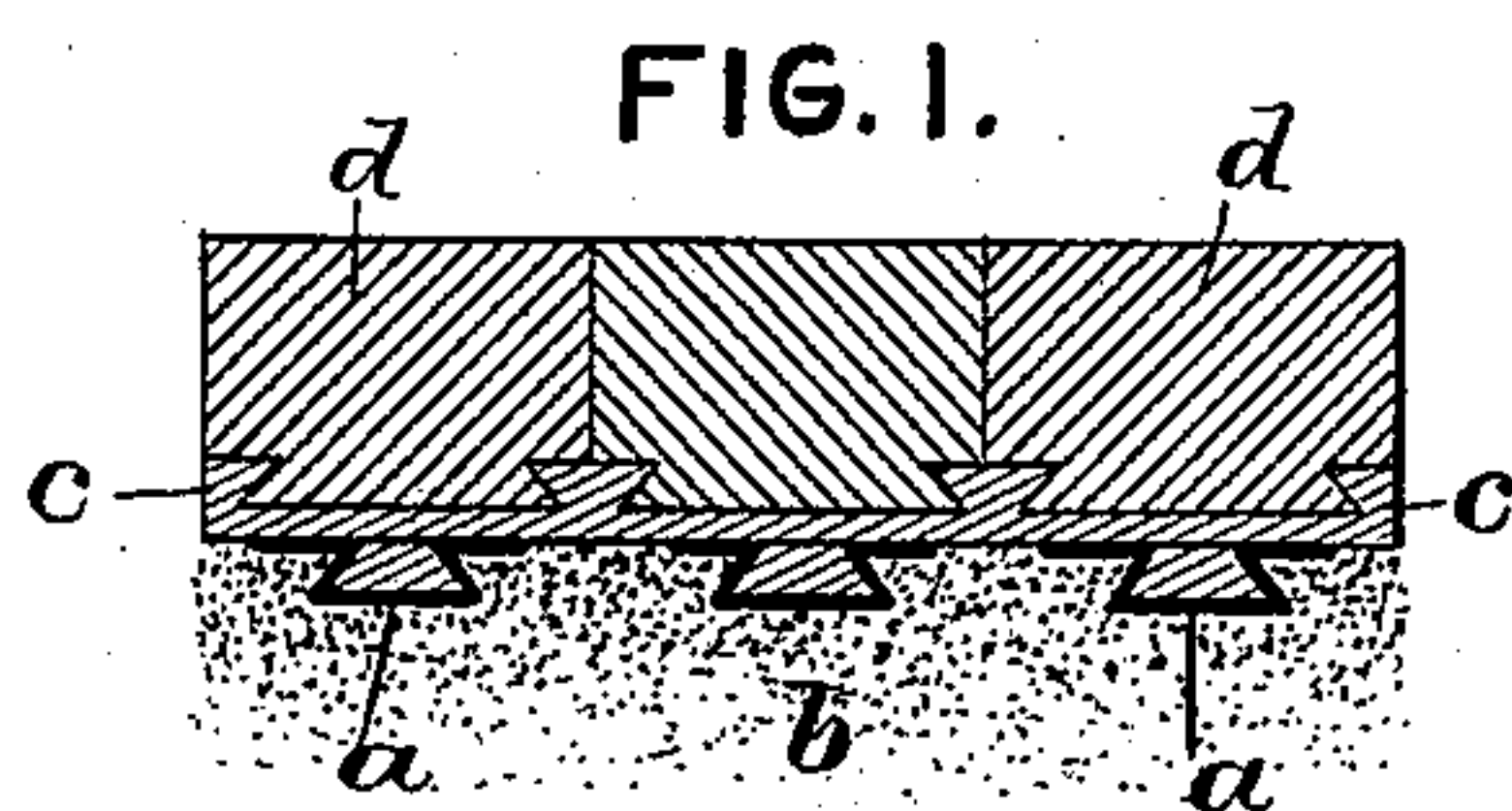


(No Model.)

J. F. EBNER.
PARQUET OR OTHER FLOORING.

No. 405,021.

Patented June 11, 1889.



ATTEST:

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UNITED STATES PATENT OFFICE.

JOSEF F. EBNER, OF LONDON, COUNTY OF MIDDLESEX, ENGLAND.

PARQUET OR OTHER FLOORING.

SPECIFICATION forming part of Letters Patent No. 405,021, dated June 11, 1889.

Application filed May 22, 1888. Serial No. 274,757. (No model.) Patented in France June 19, 1886, No. 176,877; in Belgium June 19, 1886, No. 73,561, and in England March 4, 1887, No. 3,349.

To all whom it may concern:

Be it known that I, JOSEF FRANCIS EBNER, parquet-manufacturer, of 150 Old Street, London, in the county of Middlesex, England, a subject of the Emperor of Austria and King of Hungary, have invented certain new and useful Improvements in Parquet or other Floorings, (for which I have received Letters Patent in Great Britain, No. 3,349, dated March 4, 1887; in France, patent of addition, dated June 17, 1887, to my French Patent No. 176,877, dated June 19, 1886; in Belgium, patent of addition, dated June 15, 1887, to my Belgian Patent No. 73,561, dated June 19, 1886,) of which the following is a specification.

The object of this invention is to provide a parquet-flooring which may be laid cheaply and expeditiously, and the blocks of which are firmly locked in position. For this purpose the surface to be laid in accordance with my improvements is floated over with a bed of concrete cement, or other similar material, (this I term the "substructure,") and while in a soft plastic state I embed or insert metallic surfaces having a dovetail or undercut exterior surface and channels of a dovetail cross-section (or of other equivalent "undercut" form) in the surface of the concrete or other bed, so that the upper edges of such metal channels lie about flush with such surface. The under side of the parquet or other wood-block flooring is formed with inclined holes or undercut recesses or channels, (as is well understood,) or in any other suitable manner, so that when a layer of cement, composed of asphalt, bitumen, or other suitable adhesive material, is laid over or upon the concrete bed or other substructure, and the parquet or other flooring laid upon it while in a hot plastic state, the asphalt or other cementitious material runs into the dovetail-shaped channels embedded in the concrete, and is also forced into the inclined holes or undercut recesses or channels in the under side of the parquet or other flooring, and when the mastic is cold or set the floor-

ing will thereby be firmly united to the concrete bed or substructure.

In order that this invention may be the more fully understood and readily carried into practice, I will now proceed to describe the same with reference to the drawings hereto annexed, in which—

Figure 1 shows a vertical sectional view of wood-block flooring laid in accordance with my improvements—that is, having the metal channels *a a* permanently embedded in the substructure *b*. Figs. 2 and 3 are cross-sectional and plan views, respectively, of the dovetail metal channels on an enlarged scale.

a a are the metal strips of channels, of dovetail section, embedded in the concrete bed or substructure *b* while the latter is in a plastic state, and upon its hardening these metal strips *a* are, by reason of their cross-sectional dovetail form, firmly and permanently secured in such substructure *b* in the position shown in Fig. 1. Asphalt or other suitable mastic composition or cement *c* is then laid over this bed or substructure *b* so prepared, and the wood blocks (or flooring) *d* are then laid on this intervening mastic *c* while the latter is in a soft state, and this mastic enters into the holes, recesses, or undercut channels above and the metal channels below and firmly secures the parquet or other flooring *d* to the bed or substructure *b*.

Having thus described my invention and the manner of carrying the same into practice, I would remark that I make no claim separately herein to the undercut recesses or channels formed in the under side of the parquet or other wood-block flooring or to any of the materials or compositions used; but

What I claim as novel, and desire to secure by Letters Patent of the United States, is—

1. The combination of a foundation-bed, binding-strips embodied in said bed and provided with undercut exterior surfaces and

undercut channels, a layer of cement covering said foundation-bed and entering said channels, and floor-blocks supported on said layer and locked thereto by the entrance of
5 the cement into said recesses, substantially as described.

2. The combination of a foundation-bed, sheet-metal strips of dovetail cross-section dovetailed to said bed, a layer of cement cov-

ering said foundation-bed and dovetailed to thereto, and a flooring composed of blocks dovetailed to said layer.

JOS. F. EBNER.

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