

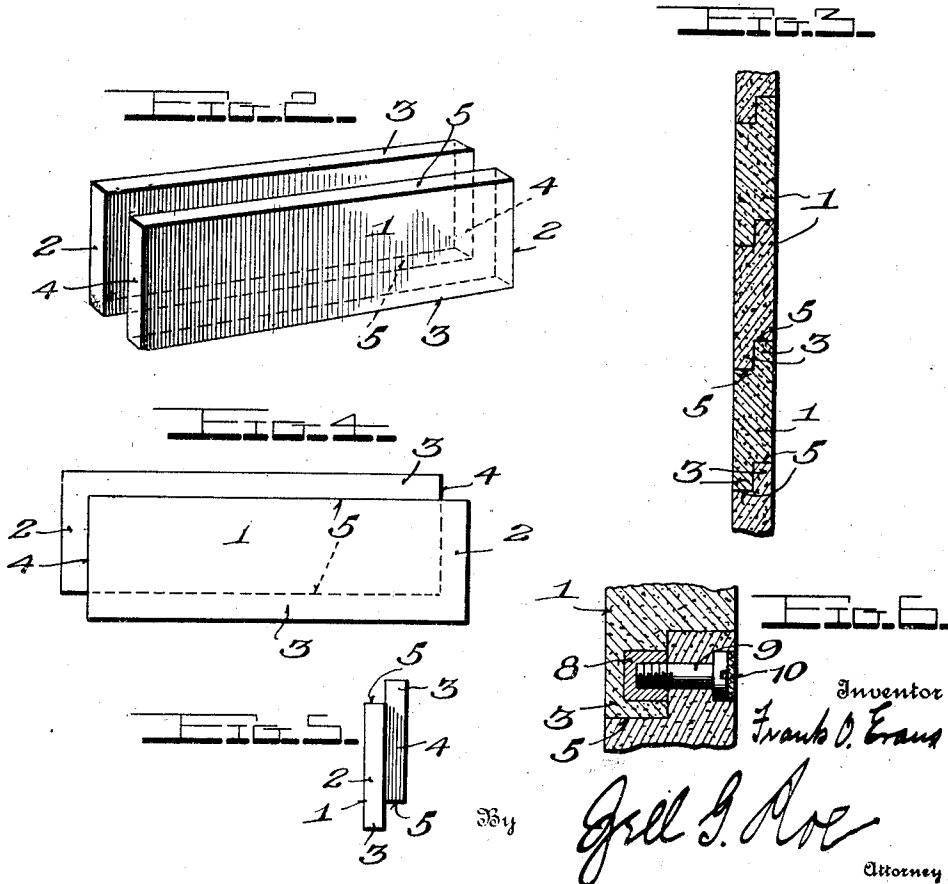
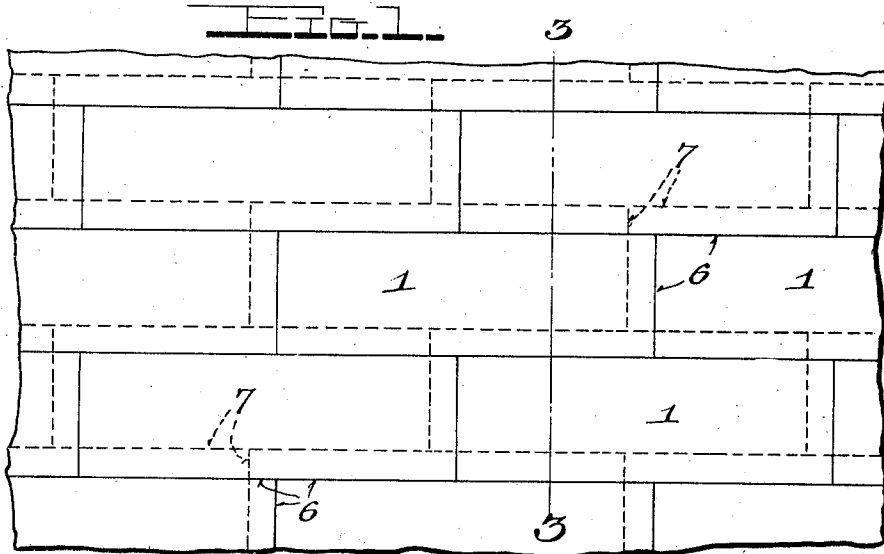
F. O. EVANS.

STAVE.

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1,356,348.

Patented Oct. 19, 1920.



UNITED STATES PATENT OFFICE.

FRANK O. EVANS, OF CHICAGO, ILLINOIS.

STAVE.

1,356,348.

Specification of Letters Patent.

Patented Oct. 19, 1920.

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To all whom it may concern:

Be it known that I, FRANK O. EVANS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Staves, of which the following is a specification.

This invention relates to certain new and useful improvements in a cement stave for building construction and it has for its primary object to provide a stave or block having oppositely extending flanges for overlapping the flanges of adjacent staves whereby a tightly jointed structure may readily be constructed.

The invention is especially adapted for wall construction, and it consists in the features of construction hereinafter described and claimed, reference being made to the accompanying drawing wherein:

Figure 1 is an elevation of a wall constructed from cement staves embodying the present invention;

Fig. 2 is a detailed perspective view of the improved cement stave;

Fig. 3 is a vertical section through the wall on line 3—3 of Fig. 1, depicting the overlapping relation of the staves;

Fig. 4 is a side elevation of the cement stave;

Fig. 5 is an end elevation thereof; and

Fig. 6 is a view illustrating means for connecting the overlapping flanges of adjacent staves;

The stave comprises a rectangular body 1, cast or molded from cement and having oppositely extending, relatively offset end edge flanges 2 and oppositely extending, relatively offset side flanges 3. This construction provides end shoulders 4 and side shoulders 5 on which the flanges of adjacent staves seat.

Each flange is equal in thickness to one-half the thickness of the body, thereby presenting the appearance of diagonally offset slabs the combined thickness of which constitutes the thickness of the body 1.

In the construction of walls the staves are positioned so that the upper side edge flange

of one stave overlaps the lower side edge flange of the next upper adjacent stave and the end flanges respectively overlie the opposing end flanges of the adjacent end staves. Thus, in the wall construction the joints 6 between the staves on one side are offset or staggered relative to the joints 7 on the other side of the wall. Consequently, a tight, close wall is provided which is readily built from the simply designed and constructed staves heretofore described.

In Fig. 6 I have disclosed a positive connection between the staves, which consists of a nut 8 embedded in the inner face of one edge flange of one stave and a bolt 9 disposed in an opening extending through the overlapping edge flange of the adjacent stave. The head of the bolt is sunk into the outer face of its supporting stave flange and protected by a layer of cement 10 poured thereover. The staves in the wall construction are thereby positively connected and the bolt and nut concealed to view so that the outside finish of the wall is not marred by the appearance of the several fasteners.

What is claimed is—

1. In a wall construction, a plurality of staves having overlapping flanges, a nut embedded in one flange with its outer face flush with the inner face of the flange, the complementary flange having a bolt hole formed entirely therethrough and with the outer end of the hole enlarged to receive and allow of turning of the bolt, and a bolt in said hole engageable with the nut and with the bottom wall formed by the enlargement of the hole to adjustably effect engagement between the inner faces of the flanges.

2. In a wall construction, a plurality of staves having overlapping flanges, a nut embedded in one flange and having its outer face substantially flush with the inner face of the flange, the complementary flange having a bolt hole formed entirely therethrough, and a bolt in said hole engageable with the nut to effect adjustable engagement between the inner faces of the flanges.

In testimony whereof I affix my signature.

FRANK O. EVANS.