Oct. 30, 1928. 1,689,320

G. E. BRADBURY

BUILDING AND METHOD OF CONSTRUCTION

Filed March 25, 1926

Fig. 1.

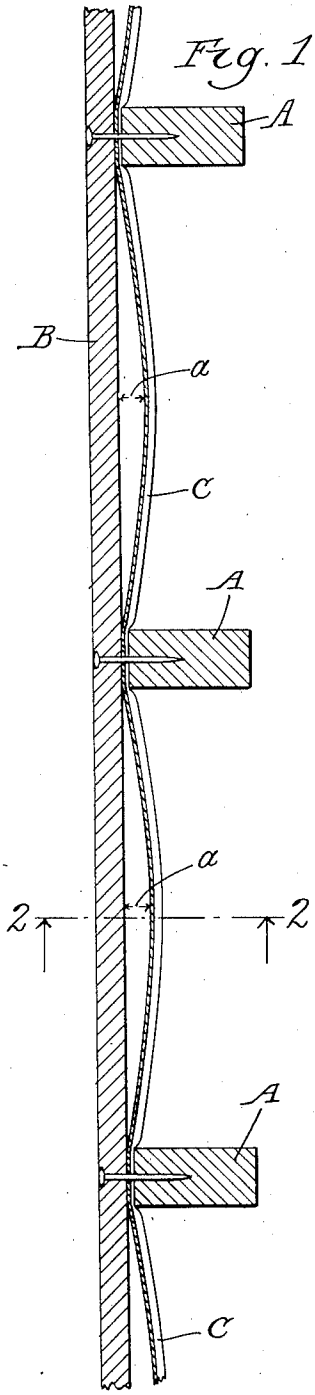


Fig. 2.

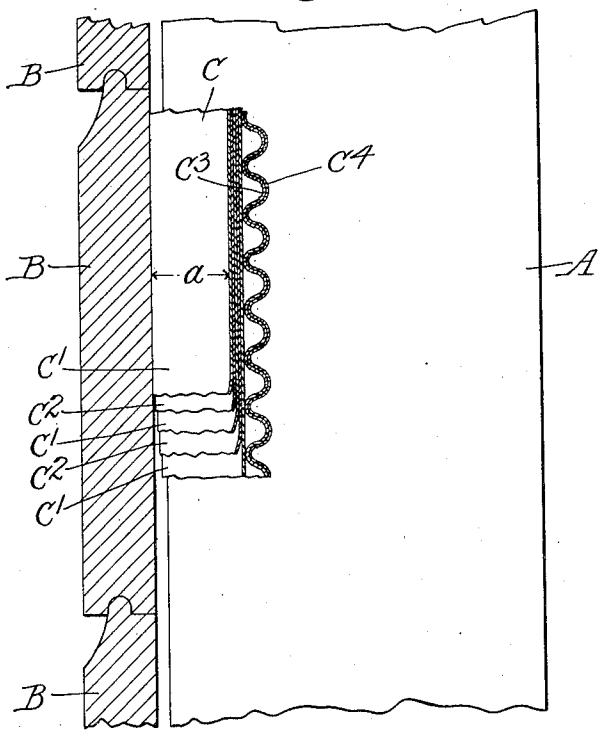


Fig. 3.

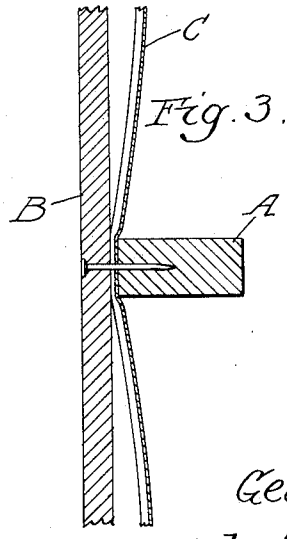
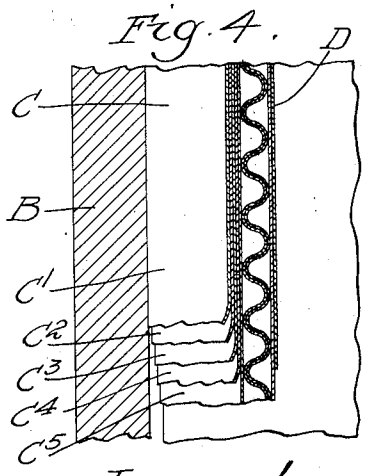


Fig. 4.



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UNITED STATES PATENT OFFICE.

GEORGE E. BRADBURY, OF CHICAGO, ILLINOIS.

BUILDING AND METHOD OF CONSTRUCTION.

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This invention relates to a structure and method of building the same. It has for one object to provide a light inexpensive insulation for a structure, and one which is weather-tight. It includes the insulating material and the process of erecting a structure in which the same is built. Other objects will appear from time to time throughout the specification and claims.

My invention is illustrated more or less diagrammatically in the accompanying drawings, wherein:

Figure 1 is a horizontal cross section of the wall built according to my invention;

Figure 2 is a vertical cross section taken on line 2—2 of Figure 1, on an enlarged scale;

Figure 3 is a modified arrangement in which the fiber board has corrugations facing outwardly;

Figure 4 is a modification of the board itself in which an outer sheet of paper is provided over the corrugations.

Like parts are indicated by like characters throughout.

A A are the upright members of the frame of the structure. B B are the boards or sliding members with which the wall of the structure is built.

C designates generally the insulating or water-proofing material which is fastened to the uprights A between them and the members B, and preferably, of course, the water-proofing and insulating material is put in place before the siding is applied.

The water-proofing and insulating material itself consists of several plies of material. As shown particularly in Figure 2 the outside portion of the insulating material consists of three plies of papers C^1 between which are positioned two plies of asphalt or other water-proofing material C^2. On its other side there is applied a corrugated paper portion C^3 which has applied to its outer edge water-proofing coating C^4 which may be of asphalt or other suitable material. The insulating material thus includes several plies of paper and water-proofing material and on its outer side or exposed side it includes corrugated material which has insulating qualities and which is itself water-proof on the outside.

This outer covering for the corrugated paper is the sheeting D. It may be single or double as shown.

The insulating material is normally nailed onto the framework of the building or other structure and when so originally put on it lies flat. When the siding is put in position on the outside, the corrugations are crushed and the insulating is caused to bulge inward as shown in Figure 1, the distance a'' representing the maximum distance between the paper and the siding.

Thus by the use of my invention and process an insulating and water-proofing sheet is provided for the building and the sheet itself has insulating qualities as above mentioned and is spaced away from the siding so that it provides a dead air insulating space between itself and the siding in addition to the insulating space which is to be found within its corrugations.

Although I have shown a process and structure in operative form, still it will be obvious that many changes might be made in size, shape and arrangement of parts without departing materially from the spirit of my invention; and I wish therefore that my showing be taken as in a sense diagrammatic.

I claim:

1. The process of building which includes the following steps: utilizing a yielding sheathing which is readily compressible through a portion of its thickness and substantially uncompressible through the remainder of its thickness and associating such sheathing with two subtsantially uncompressible parts, and compressing the sheathing between them so as to compress its compressible portion thereby causing it to bulge away from one of such members.

2. A building formed of a framework, an outer sheathing and an inner sheathing including in itself dead air spaces and being throughout the major portion of its area inwardly spaced away from such outer sheathing, such inner sheathing being in contact

with the outer sheathing throughout a portion of its area.

3. A building formed of a framework, an outer sheathing and an inner sheathing lying between the framework and the outer sheathing and including in itself dead air spaces and being through the major portion of its area inwardly spaced away from such outer sheathing, such inner sheathing being water-proof.

4. A building formed of a framework, an outer sheathing and an inner sheathing lying between the framework and the outer sheathing and including in itself dead air spaces and being through the major portion of its area inwardly spaced away from such outer sheathing, such inner sheathing providing within itself water-proofing and being on its inner surface water-proofed.

Signed at Chicago, county of Cook and State of Illinois, this 20th day of March, 1926.

GEORGE E. BRADBURY.