Feb. 16, 1926. 1,573,029

J. P. BEARDALL

BUILDING MATERIAL

Filed Jan. 27, 1922

Fig. 1.

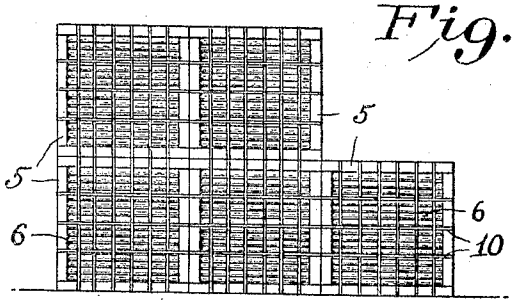


Fig. 2.

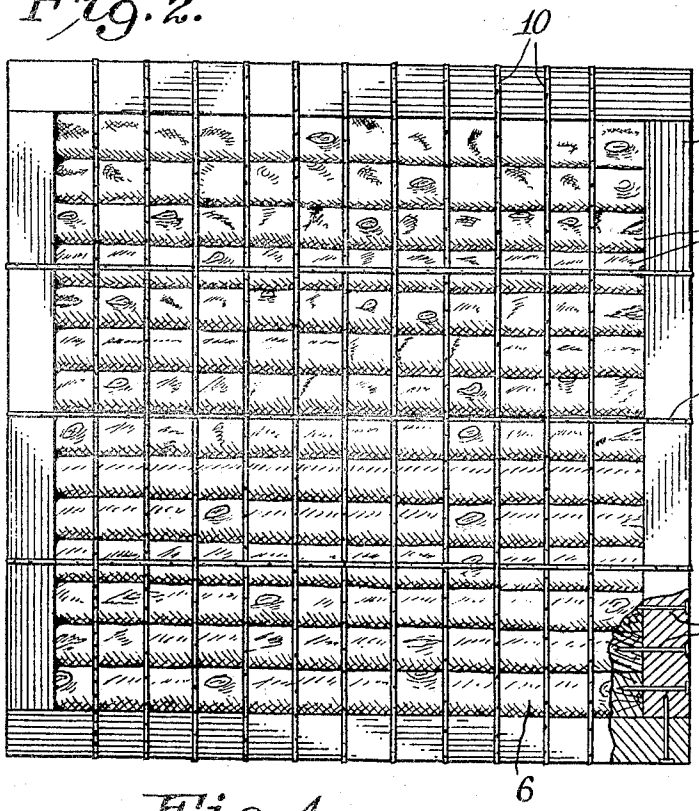


Fig. 3.

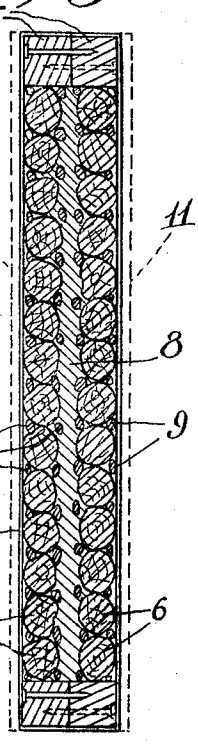
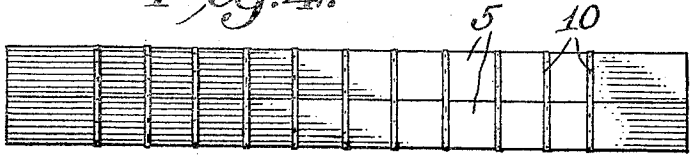


Fig. 4.



Inventor

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By his Attorneys

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Patented Feb. 16, 1926. 1,573,029

UNITED STATES PATENT OFFICE.

JOHN P. BEARDALL, OF BROOKLYN, NEW YORK.

BUILDING MATERIAL.

Application filed January 27, 1922. Serial No. 532,154.

To all whom it may concern:

Be it known that I, JOHN P. BEARDALL, a citizen of the United States, and residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Building Materials, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to building material in the form of boards or slabs which are designed to be placed one upon another and side by side in the construction of walls, ceilings and roofs of a building to form of said boards or slabs a complete building independent of any studding or other supports, and the object of the invention is to provide a building board or slab of the class specified composed of a frame or framework in which light logs or strips of wood are mounted and secured to form inner and outer facings for said boards or slabs; a further object being to provide a suitable binder or filler which is placed between the separate logs or strips in the board or slab to securely bind the same together and to form a seal and filler therefor, said seal and filler being preferably composed of paper pulp but may be composed of any other desirable material; a further object being to provide the separate boards or slabs with means whereby a plaster or other facing may be mounted on the inner and outer facings of the boards or slabs; and with these and other objects in view the invention consists in a board or slab of the class and for the purpose specified which is simple in construction and efficient in use, and which is constructed as hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which:—

Fig. 1 is a diagrammatic view showing a number of my improved boards or slabs mounted one upon another and side by side in the construction of a wall of a building;

Fig. 2 an enlarged detail view of one of my improved boards or slabs with part of the construction broken away and in section;

Fig. 3 a transverse section through the board or slab shown in Fig. 2, and indicating in dotted lines a plaster or other facing on the inner and outer faces of the board or slab, and also showing a modification; and,

Fig. 4 an edge view of my improved board or slab.

In the accompanying drawing my improved board or slab is shown composed of two approximately similarly formed rectangular frame members 5, and in the construction of the board or slab I secure the separate members of each frame together and mount therein logs or strips of wood 6 cut to fit snugly within the frame and in the accompanying drawing, these logs are shown extending transversely of the frame and are secured in position by nails 7 or in any other way, but it will be understood that I am not necessarily limited to any specific arrangement of the logs or strips 6 in the frame.

After two of the frames 5 have been completely formed, or after the logs or strips 6 have been mounted therein with the outer edges of said logs or strips in common alinement with the outer edge of the frames 5, as clearly shown in Fig. 3 of the drawing, said frames are placed together with a binder or filler 8 therebetween, which binder or filler is compressed in the operation of securing the separate frames 5 together. The binder or filler preferably employed will be paper pulp, or I may also use in combination with this paper pulp what is known as peat or humus, if desired, or any other binder and filler may be employed.

I may also, if desired, mount in the separate frames 5, filler strips 9, which consist of fine twigs or strips of wood which are located between the logs or strips 6 on the inner and outer faces thereof, as clearly shown in Fig. 3 of the drawing. These strips are not shown in Figs. 1 and 2 for the reason that they may or may not be employed as desired.

I also preferably pass a plurality of fine strips of sheet metal 10 around the complete board or slab to secure the same to the logs or strips 6 thereof as well as the frames 5 thereof, and these strips provide means

for reinforcing and anchoring plaster or other facings which may be applied to the boards or slabs after a building has been constructed therewith, and in Fig. 3 of the drawing I have indicated at 11 in dotted lines a plaster or other facing on the inner and outer faces of the board or slab.

It will be understood that after a number of the boards or slabs have been formed in the manner herein specified, they are mounted upon a suitable foundation or platform side by side one upon another to form the outer walls and partition walls of a building, and may be mounted in connection with each other to form the roof of the building, if desired, it being understood that said boards or slabs are nailed, clamped or otherwise secured together where they abut, and will be of such form and construction as to form a complete building with window and door openings therein, and after the building has been completed the inner and outer surfaces of the boards or slabs may be covered with a suitable facing material of plaster, cement and the like.

The principal object of my invention is to form, of what is regarded as waste wood or lumber, boards or slabs which may be used in the construction of a complete building when assembled, as herein set out, and principally in the construction of bungalows and similar buildings at camping places, summer resorts and the like, and by reason of the material employed buildings of the class specified may be constructed very cheaply and will be strong and durable, and will withstand all weather conditions.

It will be understood that I am not necessarily limited to the use of the metal strips 10 or the plaster or other facing 11 on the inner and outer faces of the boards, as the complete building may be formed of the boards or slabs alone to give a log cabin effect of the complete building, and it will also be apparent that the logs or strips 6 may be so arranged in the boards or slabs, preferably on the inner faces thereof, to present an ornamental appearance, and various changes in and modifications of the construction herein shown and described may be made, within the scope of the appended claims, without departing from the spirit of my invention or sacrificing its advantages.

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

1. A building board or slab of the class described comprising a suitable frame, a plurality of logs mounted in said frame and secured thereto to form said board or slab, a filler and binder in said frame between said logs, and spaced metal strips on the inner and outer faces of said board or slab.

2. A building board or slab of the class described comprising a suitable frame, a plurality of logs mounted in said frame and secured thereto to form said board or slab, a filler and binder in said frame between said logs, and spaced metal strips for reinforcing said board or slab, said metal strips being mounted on the inner and outer faces of said board or slab and being adapted to form an anchor for a plaster or other facing.

3. A building board or slab of the class described comprising similarly formed frame members, a plurality of logs mounted in the separate frame members and secured thereto, said frame members with the logs therein being adapted to be placed one upon another and secured together with a suitable binder and filler between the logs of said frame members.

4. A building board or slab of the class described comprising similarly formed frame members, a plurality of logs mounted in the separate frame members and secured thereto, said frame members with the logs therein being adapted to be placed one upon another and secured together with a suitable binder and filler between the logs of said frame members, and strips mounted between the separate logs of said frame members of less transverse dimensions than said logs.

5. A building board or slab of the class described comprising similarly formed frame members, a plurality of logs mounted in the separate frame members and secured thereto, said frame members with the logs therein being adapted to be placed one upon another and secured together with a suitable binder and filler between the logs of said frame members, and a plurality of metal strips mounted on the inner and outer faces of said board or slab for reinforcing the same.

6. A building board or slab of the class described comprising similarly formed frame members, a plurality of logs mounted in the separate frame members and secured thereto, said frame members with the logs therein being adapted to be placed one upon another and secured together with a suitable binder and filler between the logs of said frame members, a plurality of metal strips mounted on the inner and outer faces of said board or slab for reinforcing the same, and a plurality of boards or slabs being adapted to be placed side by side and one upon another and secured together to form a building.

7. A building board or slab of the class described comprising a suitable openwork rectangular frame, a plurality of wood strips mounted in the open portion of said frame and secured thereto, and said strips being spaced apart to form within the frame a space adapted to receive a suitable filler and binder.

8. A building board or slab of the class described comprising a suitable openwork frame, a plurality of wood strips mounted in the open portion of said frame and secured thereto, said strips being spaced apart to form within the frame a space adapted to receive a suitable filler and binder, and other strips of less transverse dimensions than said first named strip. mounted in said frame between said first named strips.

In testimony that I claim the foregoing as my invention I have signed my name this 26th day of January, 1922.

JOHN P. BEARDALL.