

# UNITED STATES PATENT OFFICE.

MORGAN K. ARMSTRONG, OF MINNEAPOLIS, MINNESOTA, ASSIGNOR TO BESTWALL MANUFACTURING COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF DELAWARE.

## COMPO-BOARD.

1,076,261.

No Drawing.

Specification of Letters Patent.

Patented Oct. 21, 1913.

Application filed June 28, 1911. Serial No. 635,782.

106-77

*To all whom it may concern:*

5 Be it known that I, MORGAN K. ARMSTRONG, a citizen of the United States, residing at Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Compo-Boards; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it ap-  
10 pertains to make and use the same.

15 My invention relates to that class of building material generally known to the trade as compo-board, the said term being used in a sense broad enough to include so-called plaster-board, and has for its object to provide a material of this kind which, while of low cost, is highly efficient for the purposes had in view.

20 To such ends, the invention consists of the construction hereinafter described and defined in the claims.

25 The ingredients used in making the improved board are calcined gypsum, silicate of soda, borax and saw dust. The proportion of the ingredients may be considerably varied, but I have obtained highly satisfactory results by the use of the materials as follows: calcined gypsum 75 per cent., silicate of soda  $2\frac{1}{2}$  per cent., borax  $2\frac{1}{2}$  per cent.,  
30 saw dust 20 per cent. The term saw dust is used in a liberal sense to include any and all finely divided wood particles usually treated as refuse at saw mills, and which are, consequently, of very small cost. The proportions above, give a board that is especially adapted for use as a plaster board,  
35 and when the board is to be used for other

40 purposes, a smaller per cent. of calcined gypsum and a larger per cent. of saw dust will preferably be employed. The above ingredients are first preferably commingled in dry form and are then mixed with water to form a wet conglomerate mass which is then properly distributed and pressed into  
45 form and dried to give the finished product or board.

50 The plaster-board, or more generally stated, the compo-board of the above character may be constructed at small cost and is highly efficient for the various purposes for which it is intended, being, as already indicated, especially efficient for use as a plaster-board. The silicate of soda serves as a binder or glue for the saw dust, and the borax serves as a retardant for preventing  
55 too rapid drying or setting of the conglomerate mass, and also contributes to the production of a board, which, when seasoned, will be hard and tenacious, or coherent.  
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What I claim is:

1. A board of the kind described made of gypsum, silicate of soda, borax, and saw dust.

2. A board of the kind described composed of approximately seventy-five per cent. (75%) of gypsum, two and one-half per cent. ( $2\frac{1}{2}$ %) of silicate of soda, two and one-half per cent. ( $2\frac{1}{2}$ %) of borax, and twenty per cent. (20%) of saw dust.  
70

In testimony whereof I affix my signature in presence of two witnesses.

MORGAN K. ARMSTRONG.

Witnesses:

HORACE BROWN,  
E. E. COMBS.