

UNITED STATES PATENT OFFICE.

GEORGE P. CRUMBAUGH, OF ST. LOUIS, MISSOURI, ASSIGNOR OF ONE-HALF TO EDWIN W. GROVE, OF ST. LOUIS, MISSOURI.

LATH.

1,107,906.

Specification of Letters Patent.

Patented Aug. 18, 1914.

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To all whom it may concern:

Be it known that I, GEORGE P. CRUMBAUGH, a citizen of the United States, residing at St. Louis, in the State of Missouri, have invented new and useful Improvements in Laths, of which the following is a specification.

This invention relates to a cellular wall covering or lath for building purposes embodying a number of air cells with exteriorly exposed openings to receive a plaster covering, whether of a finishing character or a primal covering such as a concrete mixture which may afterward receive the finishing covering or coating.

The primary object of the invention is to provide a novel form of key base for walls to receive and positively hold a plaster covering of any desired nature and thereby replace the ordinary lath and plaster structure of walls by a basic organization that will not bend or give sidewise under weight or strain.

The invention consists essentially of a series of successive corrugations reinforced by layers or laminae in superposed relation, the layers or laminae being individually arranged against and secured to either one or both faces of the corrugations.

Many constructions could be devised to obtain the organization of the corrugations and layers desired in accordance with the features of the invention, and specifically the components of the improved lath, wall covering or key base may consist of alternating flat paper packing strips or sheets and corrugated paper sheets, or corrugated paper sheets and flat paper sheets applied to and secured against the two faces or sides of the corrugated sheets; or paper pulp, stiffened cloth or textile fabric, or wood or other suitable material or combinations of materials may be used for forming the corrugations and laminae; but whatever the nature of the components may be, they are all treated with a suitable strengthening or water-proofing varnish or coating, or rendered fire-proof by applying a suitable fire-proofing substance thereto.

The most important principle involved in the construction of the improved lath, wall covering or key base is the disposition of the components in edgewise relation relatively

to each other to provide a strain and weight resisting structure that will not warp or shrink, and which has its strength increased by applying a plastic covering thereto and forcing the plastic material into the exposed openings. In the drawings: Figure 1 is a perspective view of a portion of a wall structure showing the same partially covered by the improved lath, wall covering or key base. Fig. 2 is an enlarged detail section showing a slight modification of the form of lath or key base shown by Fig. 1. Fig. 3 is an enlarged detail section showing a further modification in the structure of the lath. Fig. 4 is an enlarged detail section particularly illustrating a modification in the form of the corrugations.

As shown by Fig. 1, the improved lath, wall covering or key base is adapted to be applied to the ordinary wall or partition structure embodying upright joists 5, or it may be applied to ceilings in a similar manner, and in the particular organization of the lath, wall covering or key base as shown by Fig. 1 an intermediate corrugated strip 6 of paper or other suitable material has flat sheets or strips 7 and 8 applied to opposite sides or faces thereof, and after these components have been thus assembled a number of the complete sections embodying the corrugated strips and flat strips are arranged in superposed relation and secured to each other by a suitable cement, glue or other material. The improved lath, covering or key base may be formed by assembling large sheets embodying corrugated and flat laminae in a stack and securing the same and then cutting through the stack by any suitable means to form the individual laths of suitable thickness. It will be understood that the corrugated strips 6, as shown by Fig. 1, will be firmly secured by any suitable cement or cementitious material to the flat strips 7 and 8 and the contiguous flat strips will be secured to each other by a similar cement and the lath as an entirety may then be dipped in a bath or coated with a suitable varnish or other water-proofing material, and if desired each lath may be first treated to render the same fireproof by applying thereto or saturating the same with a fireproofing substance or liquid of any preferred nature.

In applying the laths to the studding 5

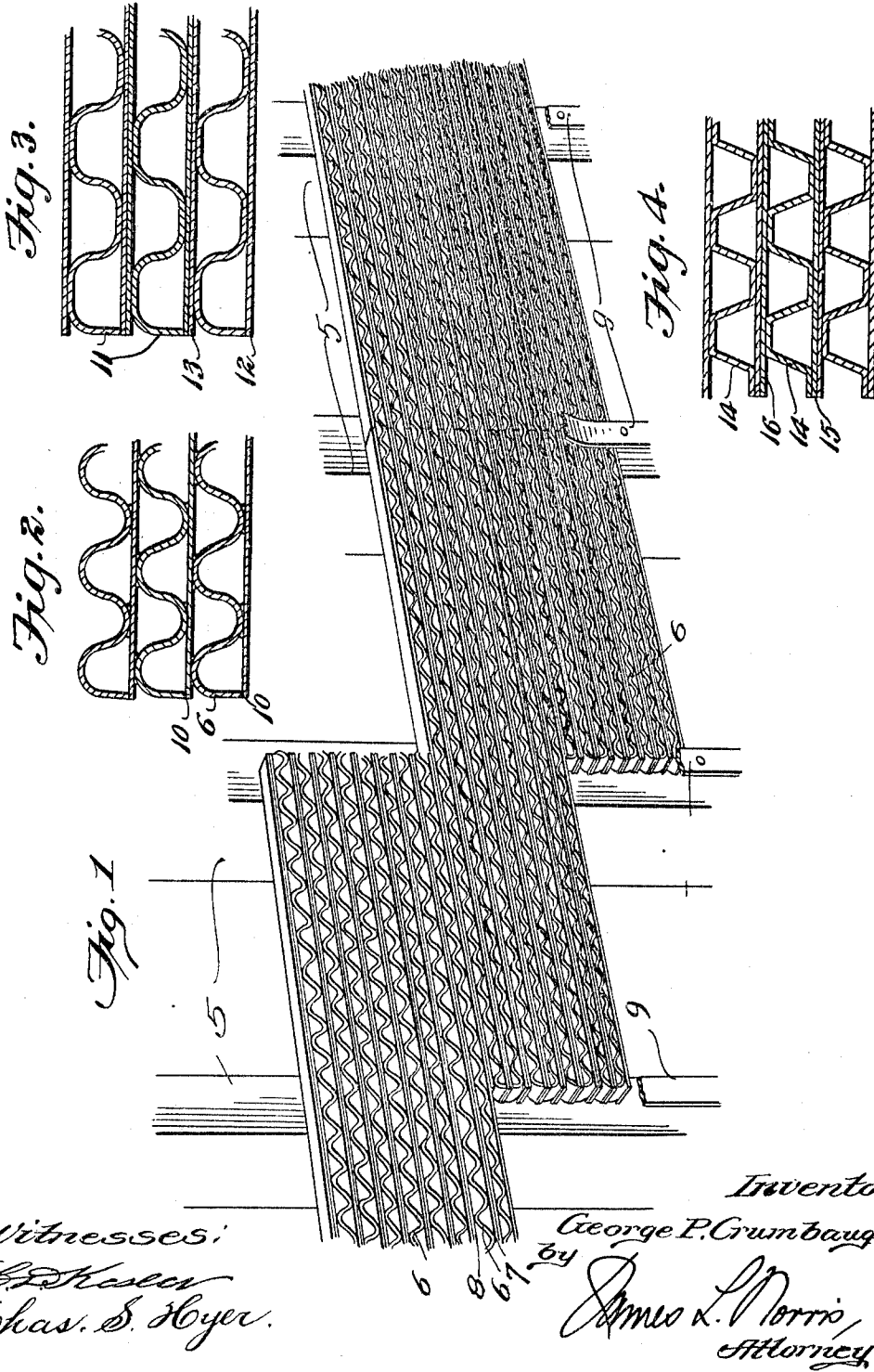
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members and flat strips being coated with water-proofing material.

5 3. A lath device of the class specified comprising a plurality of longitudinally disposed corrugated strips arranged in parallel relation and having flat strips secured to the upper and lower portions of the corrugations of the said members, the flat strips between the corrugations being secured to each

other and serving to reinforce and 10 strengthen the lath as a whole.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

GEORGE P. CRUMBAUGH.

Witnesses:

H. H. McCULLY,
F. N. HAMMING.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."