

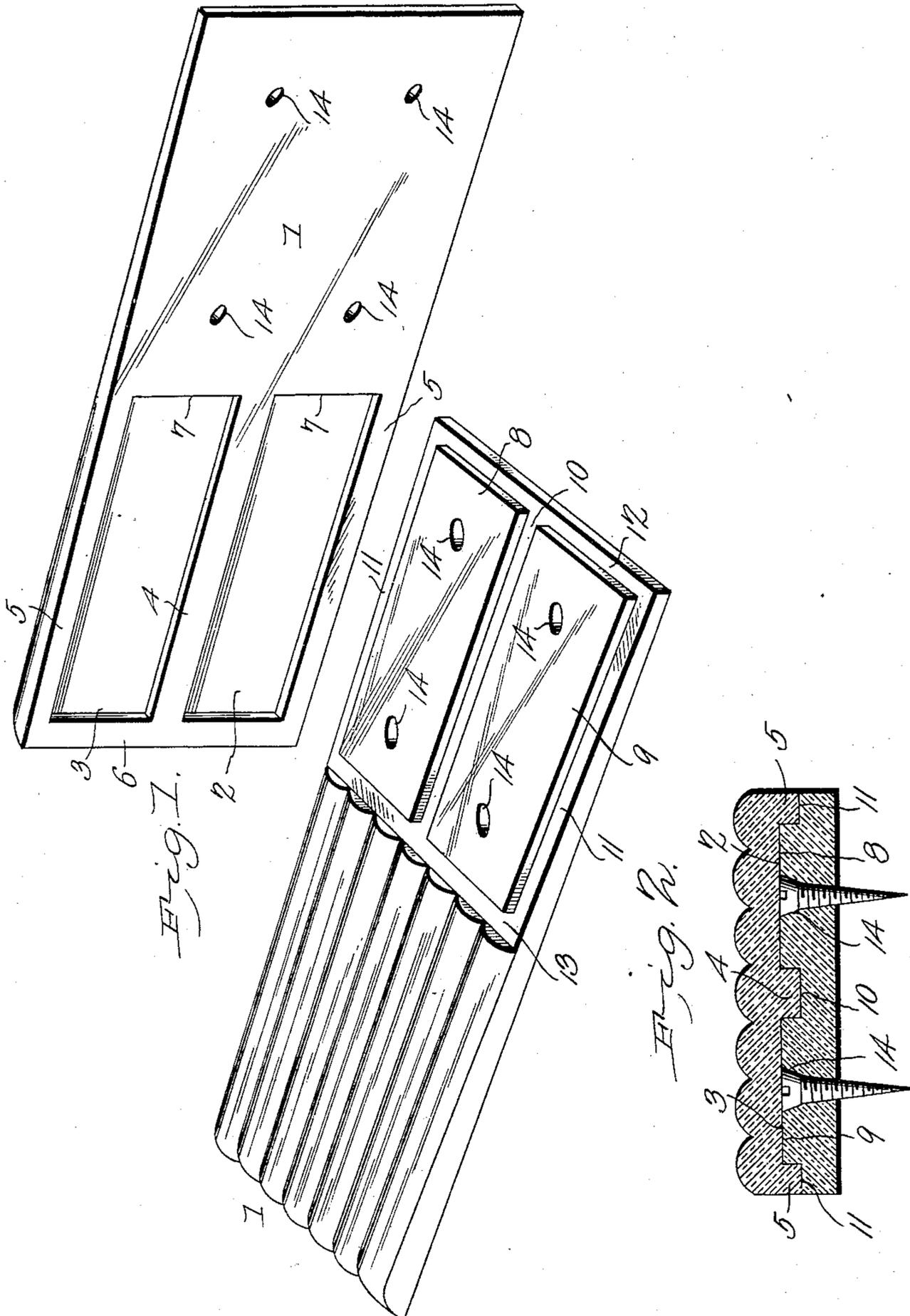
No. 734,976.

PATENTED JULY 28, 1903.

J. SIMMERMAN.
GLASS SHINGLE.

APPLICATION FILED MAY 21, 1903.

NO MODEL.



Witnesses
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UNITED STATES PATENT OFFICE.

JACOB SIMMERMAN, OF DUNKIRK, INDIANA.

GLASS SHINGLE.

SPECIFICATION forming part of Letters Patent No. 734,976, dated July 28, 1903.

Application filed May 21, 1903. Serial No. 158,177. (No model.)

To all whom it may concern:

Be it known that I, JACOB SIMMERMAN, a citizen of the United States, residing at Dunkirk, in the county of Jay and State of Indiana, have invented a new and useful Improvement in Glass Shingles, of which the following is a specification.

My invention relates to shingles, and has for its objects to produce a device of this character which will be simple of construction, efficient in operation, one in which the shingles when assembled upon a roof will be securely interlocked one with another, and one by which strength and durability are obtained and liability of the shingles decaying and holding dampness is obviated.

To these ends the invention comprises the novel details of construction and combination of parts more fully hereinafter described.

In the accompanying drawings, Figure 1 is a perspective view illustrating the manner of assembling the shingles constructed in accordance with my invention. Fig. 2 is a vertical transverse section taken through a pair of shingles assembled.

Referring to the drawings, 1 indicates a shingle which in accordance with my invention is provided upon the upper half of its lower face with two rectangular depressions or recesses 2 3, which are divided by a central longitudinal depending flange or rib 4, are bounded upon their outer sides by longitudinal depending side flanges 5, and at their upper ends by a transverse depending end flange 6, said recesses terminating at their inner ends in abrupt transverse shoulders 7. The shingle is provided upon the lower half of its upper face with a pair of rectangular elevated portions or projections 8 9, which are divided or spaced apart by a central longitudinal recess or gutter 10, are bounded upon their outer sides by longitudinal side depressions 11, at their lower ends by a transverse depression 12, and at their inner upper ends by a transverse recess or gutter 13.

14 indicates countersunk perforations which are formed through the shingle at suitable points in its lower half for the reception of nails, by which the shingles are in practice secured to the roof-framework.

In practice the shingles half overlap one

with another and when a pair of the shingles are assembled the projections 8 9 fit into and interlock with the depressions 2 3, respectively, while the side flanges fit into the depressions 11, the end flange into recess or gutter 13, and the recess 12 accommodates shoulders 7, as clearly illustrated in Fig. 1. By this construction it will be seen that the shingles when assembled are securely interlocked one with another and that danger of them becoming loosened and falling from the roof is entirely obviated, while at the same time the shingles may in practice be very rapidly assembled.

My improved shingle, as above constructed, is preferably composed of glass, which material is highly adaptable for the purpose and produces a shingle which is strong and durable, one which will be a non-conductor of both heat and lightning, one which is admirably adapted for use in constructing skylights, and one which during its manufacture may be readily colored or tinted, as desired.

In manufacturing my improved shingle I cast or press the same in molds in a manner which is well known in glass manufacturing.

Having thus described my invention, what I claim is—

1. A shingle provided upon the upper half of its lower face with a pair of depressions divided by a depending central flange and bounded by longitudinal side flanges, an outer transverse end flange and an inner shoulder, and upon the lower half of its upper face with a pair of projections divided by a central longitudinal recess or gutter and bounded by longitudinal side depressions, an outer transverse end depression, and an inner transverse recess or gutter.

2. As a new article of manufacture, a shingle composed of glass and provided upon the upper half of its lower face with a pair of depressions divided by a depending central flange and bounded by longitudinal side flanges, an outer transverse end flange and an inner shoulder, and upon the lower half of its upper face with a pair of projections divided by a central longitudinal recess or gutter and bounded by longitudinal side depressions an outer transverse end depression, and an inner transverse recess or gutter.

3. A pair of cooperating shingles having their ends overlapped and their adjacent meeting faces provided one with a pair of depressions divided by a central longitudinal
5 flange and bounded by longitudinal side flanges, an outer transverse end flange and an inner shoulder, and the other with a pair of projections formed to fit the depressions and divided by a central longitudinal recess or
10 gutter and bounded by longitudinal side de-

pressions, an outer transverse end depression and an inner transverse recess or gutter.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JACOB SIMMERMAN.

Witnesses:

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