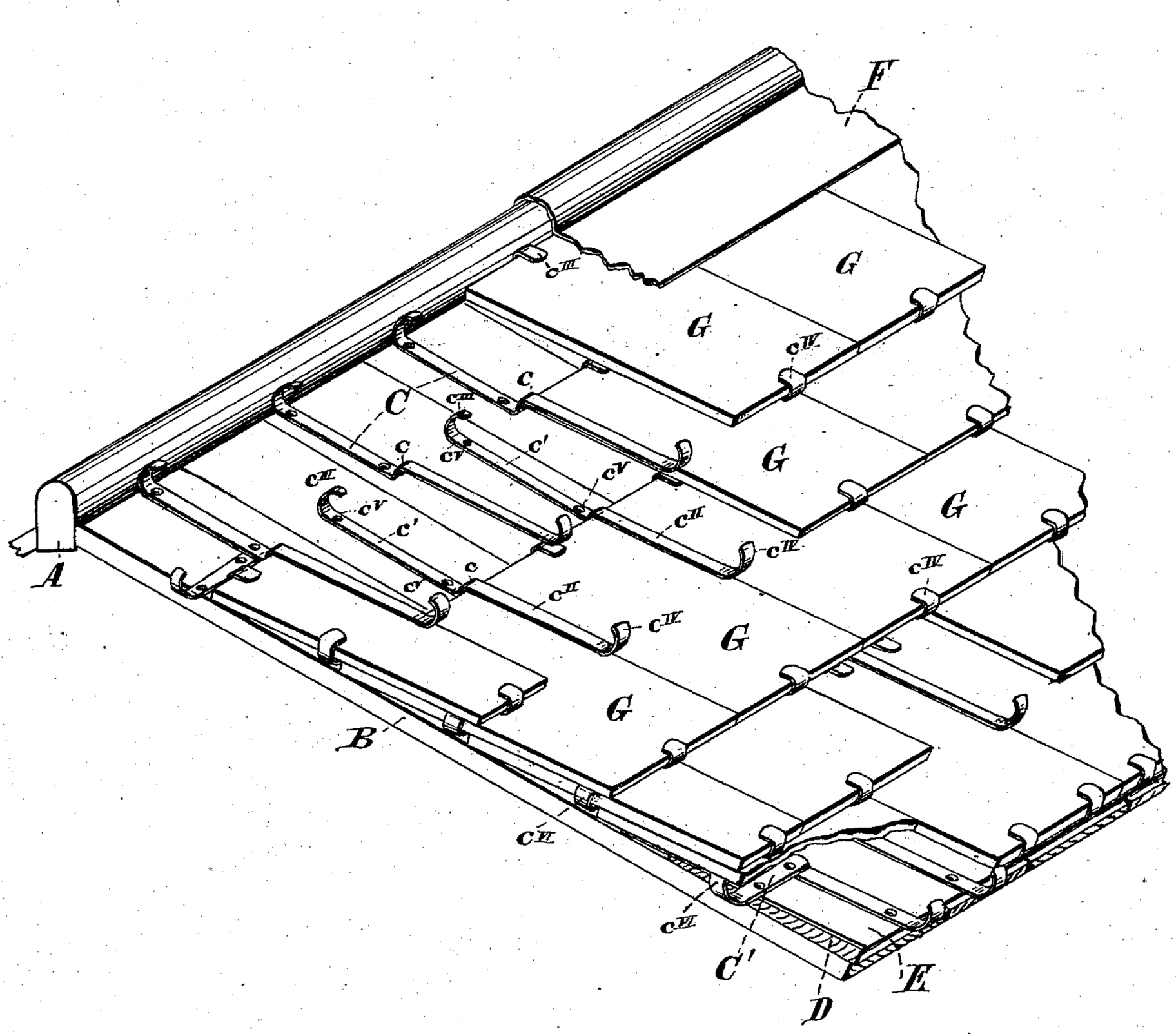
(No Model.)

J. C. CHAMBERS.

DEVICE FOR ATTACHING ROOFING SLATE.

No. 282,439. Patented July 31, 1883.



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JOSEPHUS C. CHAMBERS, OF CINCINNATI, OHIO, ASSIGNOR OF ONE-HALF TO WILLIAM PELLING, OF NEWPORT, KENTUCKY.

DEVICE FOR ATTACHING ROOFING-SLATES.

SPECIFICATION forming part of Letters Patent No. 282,439, dated July 31, 1883.

Application filed March 5, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOSEPHUS C. CHAMBERS, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Device for Securing Roofing-Slates, of which the following is a specification, reference being had to the accompanying drawing, which presents a perspective view of my device.

My invention relates to a means for enabling the easy, cheap, and secure attachment of roofing-slates to the ordinary wooden sheathing, which also facilitates the detachment of any one or more of them, when desired, the means being such as to enable the use of entire slates free from nail-holes, kerfs, and notches, whose presence in existing devices so weakens and fractures the slates as to render a considerable proportion of them useless.

A and B may represent, respectively, the customary wooden ridge-piece and sheathing. C are strips of any suitable sheet metal of sufficient flexibility, such as zinc, copper, or plated sheet-iron. Each strip C is bent at or about its mid-length, so as to form a jog, *c*, whose depth equals the thickness of a slate. The two portions c' c'', separated by said jog, are set at the same slight obliquity to one another as the slates, when in position, have to the sheathing. Lips c''' c^{iv} are formed at the respective extremities of the strips at such distance apart as just to receive a slate, G, lengthwise. Two or more holes, c^{v}, receive nails or screws by which the strips are fastened in proper alignment and at suitable distances to the sheathing, as represented. Except for the lowest tier, these holes are confined to the portion c' in immediate contact with the sheathing. To support the lowest tier at proper obliquity to the sheathing, and at the same time exclude the rain, a strip of weather-boarding, D, covered by a sheet of galvanized iron, lead, or copper, E, is applied to the sheathing at that part. Short strips C′, having one hook, c^{vi}, serve to hold by their edges the outer or flanking files of slates. The lowermost rank or tier of strips having been secured at proper distances and in correct alignment to the sheathing, their terminal lips or hooks become a perfect gage for application of the bottom rank of slates, which, having been laid upon the strips, are secured by flattening of the hooked extremities of the strips down upon them, as seen at *x*. The strips of the next rank, being then applied with their jogs or shoulders *c*, in juxtaposition with the upper edges of the first tier of slates, and being fastened to the sheathing, serve to gage and hold the slates of the second tier, and so on until the roof is completed. Finally, a saddle-plate, F, prevents entrance of rain, snow, &c., between the ridge-piece and the upper tier of slates.

Should it be desired to remove one or more slates, such removal can be easily accomplished after sufficiently unbending the lower hook of the confining-strip, and can be as readily replaced by the same or other slates, which are then firmly secured by flattening down the hooks.

Among obvious advantages of the above device may be enumerated: the ease with which a roof may be thus slated or repaired by any person of average intelligence. No indentations or holes being required, a skilled operator is not needed, and the destruction of a large proportion of slates is thereby avoided. The slates are more firmly held than by the common way of nailing, which leaves the lower edges unfastened, and consequently liable to be blown loose and to be lifted by snow, &c. The above mode of attachment permits the substitution of one or more panes of glass for as many slates where desired.

I claim as new and of my invention as a new article of manufacture—

1. The device for securing roofing-slates, consisting of the strips C *c* c' c'' c''' c^{iv} c^{v} and suitable devices for securing the same to the sheathing, substantially as set forth.

2. The combination, in a slated roof, of strips C, sheathing A, and slates G, as set forth.

In testimony of which invention I hereunto set my hand.

JOSEPHUS C. CHAMBERS.

Attest:

GEO. H. KNIGHT,

SAML. S. CARPENTER.