No. 795,372. PATENTED JULY 25, 1905.

T. C. SOMERVILLE.

MEANS FOR SECURING ROOFING SLATES, &c.

APPLICATION FILED FEB. 21, 1905.

2 SHEETS—SHEET 1.

FIG. 1.

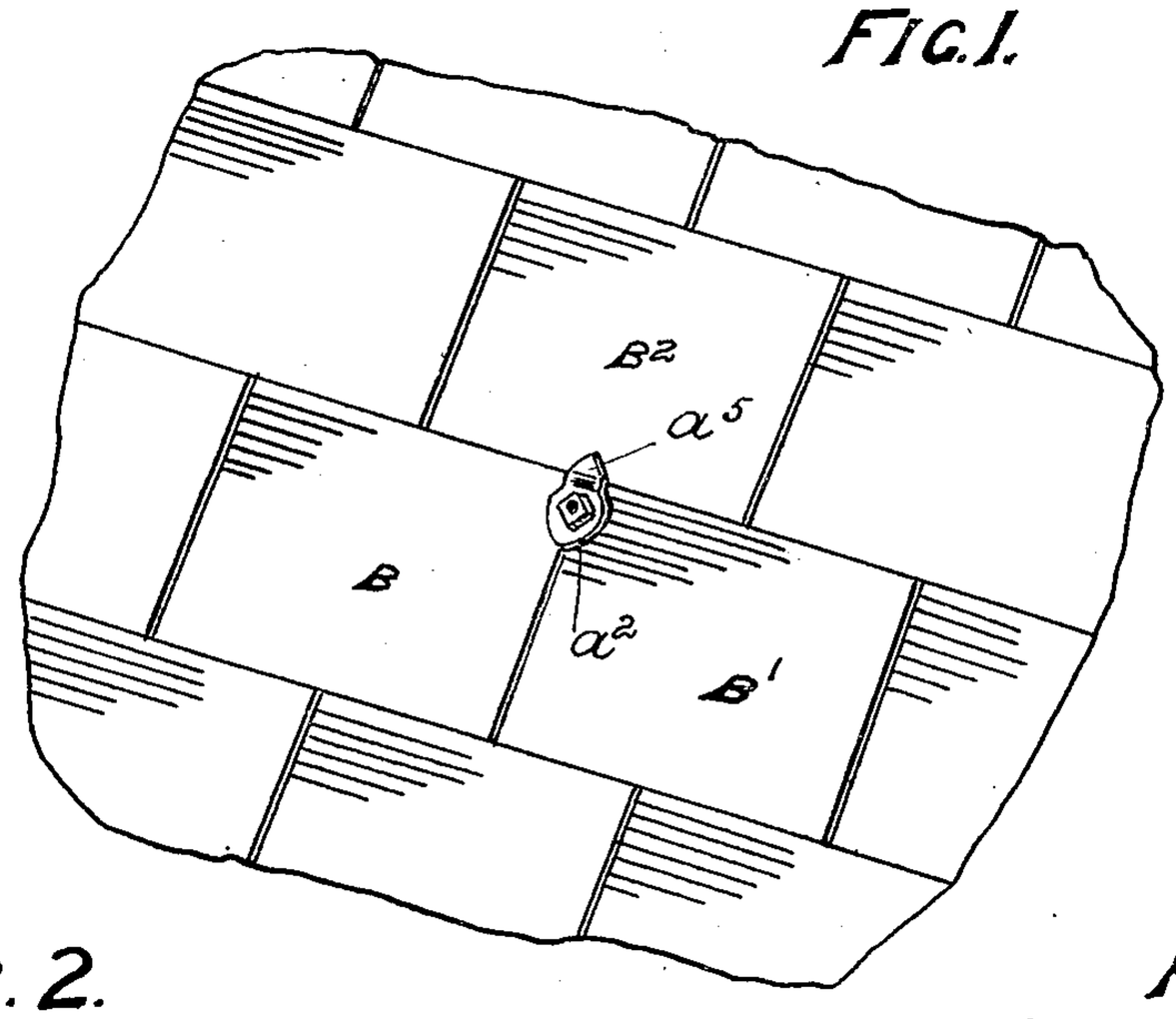


FIG. 2.

FIG. 4.

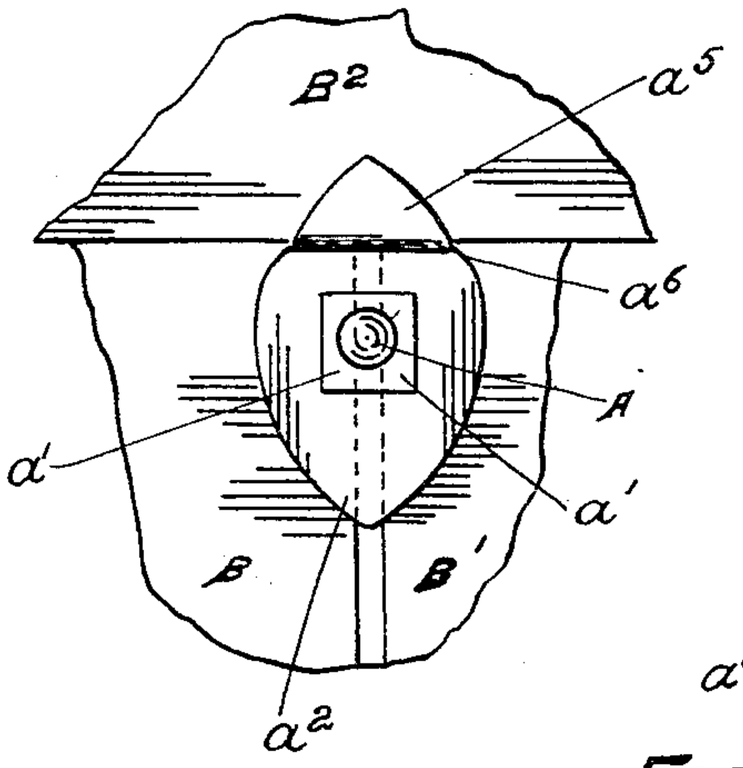


FIG. 3

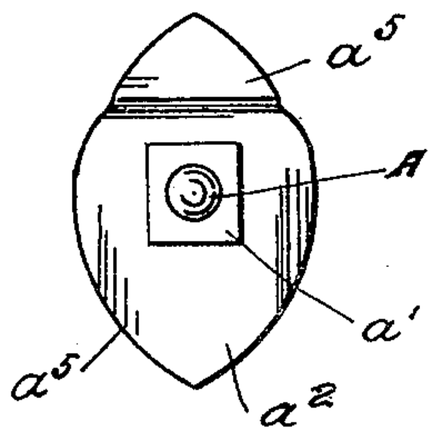
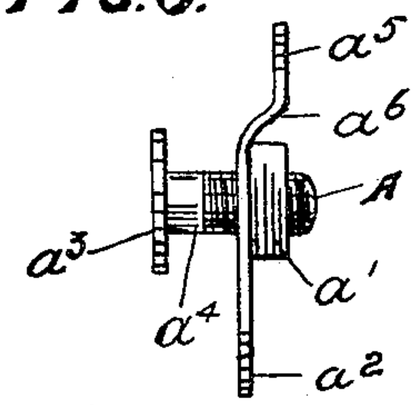
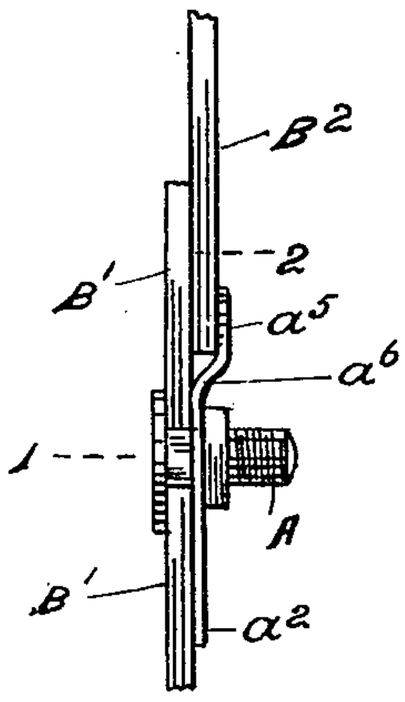


FIG. 5.





Witnesses.

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2 SHEETS—SHEET 2.

FIG. 9.

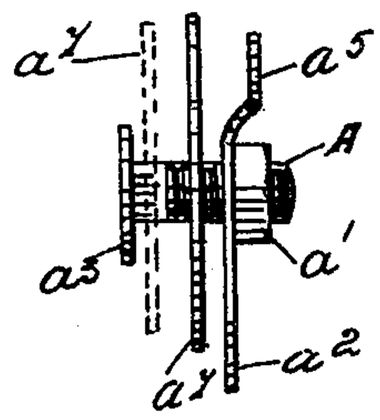


FIG. 7

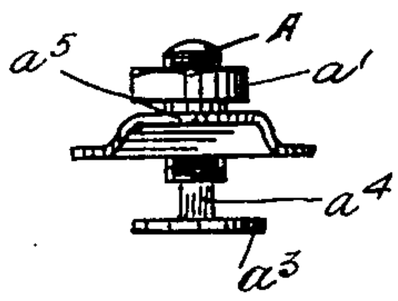


FIG. 6

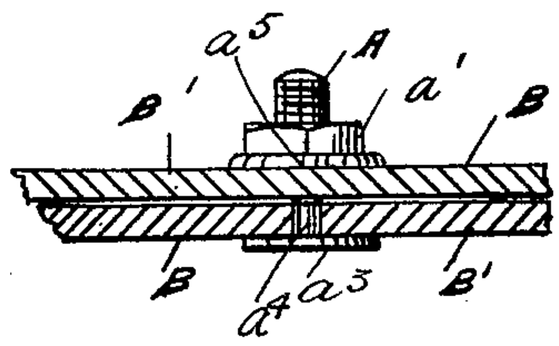
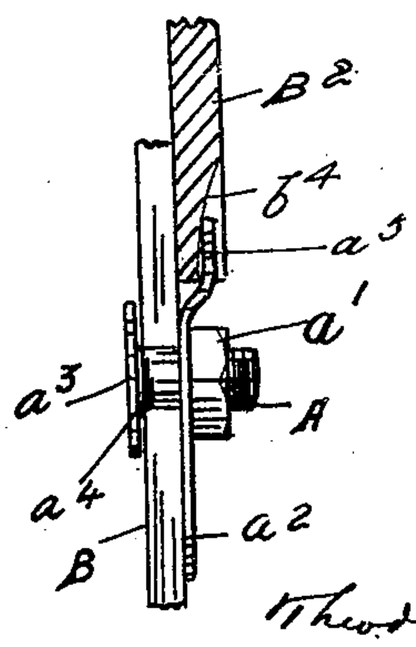


FIG. 8.



Witnesses.

H. L. Trimble

C. B. Sheffield

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UNITED STATES PATENT OFFICE.

THEODORE CONSTANTINE SOMERVILLE, OF CASTLECOMER, IRELAND.

MEANS FOR SECURING ROOFING-SLATES, &c.

No. 795,372. Specification of Letters Patent. Patented July 25, 1905.

Application filed February 21, 1905. Serial No. 246,797.

To all whom it may concern:

Be it known that I, THEODORE CONSTANTINE SOMERVILLE, student, a subject of the King of Great Britain, residing at Little Castle, Castlecomer, in the county of Kilkenny, Ireland, have invented a certain new and useful Improvement in Means for Securing Roofing-Slates and the Like, (for which I have applied for a patent in Great Britain, No. 21,711, dated October 10, 1904,) of which the following is a specification.

My invention relates to an improved slate or tile fastener for securing slates or tiles or similar articles of roofing upon houses, walls, or such like.

My invention is particularly adapted for fixing slates or tiles which have become loose upon the roof after the completion of the same without removing any part of the said roof which may have remained undisturbed.

In order that this invention may be clearly understood and more easily carried into practice, I have appended hereunto two sheets of drawings, upon which I have fully illustrated the nature of my said invention.

Figure 1 is a general view of part of a roof with one of the fasteners shown thereon. Fig. 2 is a plan of the fastener when attached to the slates. Fig. 3 is a plan of the fastener when detached. Fig. 4 is a side elevation of the fastener when attached in position. Fig. 5 is a side elevation of the fastener when detached. Fig. 6 is a section through Fig. 4 on the line 1 2. Fig. 7 is an end elevation of the fastener. Fig. 8 is a part side and part sectional elevation showing a method of securing a thick plate. Fig. 9 is a side elevation of the fastener, showing a modification.

In carrying this invention into effect the fastener is made from galvanized iron or other suitable material and consists of a screwed bolt A, which is fitted with a nut a' and washer a^2, the head a^3 of this bolt being so formed as to enable it to catch under the slates or tiles which lie beneath the slate or tile B^2 to be fixed. The neck a^4 of the bolt is flattened on two opposite sides, so as to facilitate its passage between the two fixed slates or tiles B B′, under which the head a^3 is caught. The washer a^2 may be of any suitable shape, but is preferably oval, one end being bent in the form of an elevated projecting lip a^5, which enables it when screwed down upon the two fixed slates B B′ to slightly overlap and hold down the lower end of the slate B^2 to be fixed, and thus prevent the lower end of same from rising up and sliding over the fastener.

The mode of fixing the fastener will be obvious from the foregoing. When the slate B^2 to be fixed has been inserted into its place, the bolt A is passed up between the two fixed slates B B′, on which the slate to be fixed rests. The washer a^2 is then placed upon the bolt and so adjusted that the lower end of the slate to be fixed rests against the slight elevation or stop a^6 of the lip of the washer, while the projection a^5 of the lip overlaps the slate B^2, the washer being then screwed down and clamped in position by means of the nut a'. In cases where the slate or tile B^2 to be fixed is of unusual thickness it will be found advisable to chip a portion of it where the lip of the washer overlaps it, as shown by b^4, Fig. 8, thus making sure that the washer will rest solidly on the fixed slates or tiles below. A second washer a^7 may in some cases be used in cases where the head a^3 of the bolt A is not found to be broad enough to take firm hold under the fixed slates or tiles B B′, such washer being made of zinc or some similar thin material which when placed on the head of the bolt will not prevent its being slipped up under the fixed slates or tiles.

Detailed modifications of the above invention may be made to adapt it to the use of special requirements; but such modifications will not exceed the scope of this invention.

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

1. Improvements in means for securing roofing-slates and the like, comprising a screwed bolt part of the neck of which is shaped to enable it to be slid up between the fixed slates with its head engaging with the under side thereof in combination with a washer or disk having a lip or stop against which the loose slate rests when the washer is screwed down upon and clamped to the fixed slates by a nut.

2. Improvements in means for securing roofing-slates and the like, comprising a screwed bolt part the neck of which is shaped to enable it to slide up between the fixed slates with its head engaging the under side thereof,

in combination with a washer or disk having a lip or stop against which the loose slate rest when the washer is screwed down upon and clamped to the fixed slates by a nut, and a second washer which is mounted upon the bolt and which engages with the under side of the fixed slates.

In witness whereof I have hereunto set my hand in the presence of two witnesses.

THEODORE CONSTANTINE SOMERVILLE.

Witnesses:
FRANCIS O'BRIEN KENNEDY,
ROBERT DOWSE WIKON.