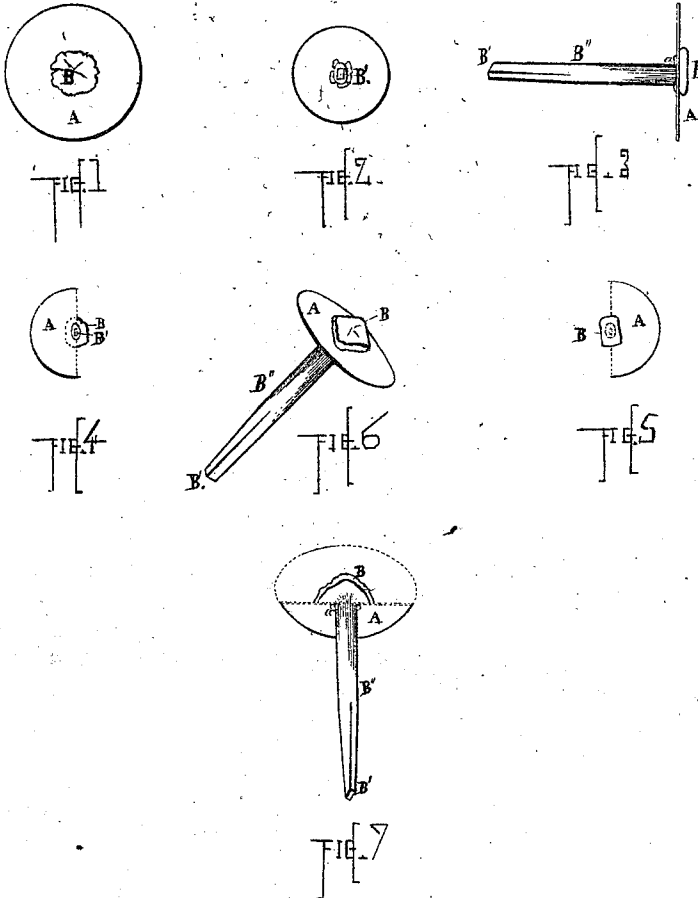


T. O'GARA.

Slating-Nails.

No. 134,560.

Patented Jan. 7, 1873.



WITNESSES

*Jerome A. Rinsman*  
*L. G. Ballou*

INVENTOR

*Thomas O'Gara*  
By his Attorney  
*Thos. H. Dodge*

# UNITED STATES PATENT OFFICE.

THOMAS O'GARA, OF WORCESTER, MASSACHUSETTS.

## IMPROVEMENT IN SLATING-NAILS.

Specification forming part of Letters Patent No. 124,560, dated January 7, 1873.

*To all whom it may concern:*

Be it known that I, THOMAS O'GARA, of the city and county of Worcester and State of Massachusetts, have invented a certain new and useful Improvement in Slating-Nails; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing which forms a part of this specification, and in which—

Figure 1 represents a plan or top view of my improved slating-nail; Fig. 2 represents an opposite view of a similar nail with small head; Fig. 3 represents a side view of the nail; Fig. 4 represents a view of the nail looking toward the point, one half of the head only being shown; Fig. 5 represents a view looking toward the head of nail, one-half of head only being shown; Fig. 6 represents a perspective view; and Fig. 7 represents a perspective view, the head being shown in section.

To enable those skilled in the art to which my invention belongs to make and use the same, I will proceed to describe it in detail.

A circular piece of tin or other suitable metal, A, having a hole in the center thereof, is slipped upon the point B' of nail B'', after which the body of the nail is forced through a die or a die forced over the body of the nail, whereby the metal piece A is forced up against the under side of the head B of the nail, where it is securely held by portions of the metal which are cut or scraped from the corners of the nail by the die, and forced up against the under side of the circular tin piece A, thus fastening it securely upon the body of the nail and against the under side of the head B of the nail. The hole in the die being made round, or nearly so, leaves the upper part of the nail in that form which is most desirable for use in laying the slate.

It will be seen that, by the operation and

means employed to fix the thin heads A in place, a tight joint is also made between the nail and the thin or spring-head part A.

My improved nail can be made in a convenient and expeditious manner, while it is a very valuable means of fastening slate to the roofs of buildings.

In punching the holes in slate the material is caused to "flake off," as it is called, so that when the common slate-nail is used the heads are apt to break through and thus allow the slate to slip out of place. This is the case when the roofs of slated buildings are subjected to the action of high winds. By the use of my improved nail these objections are entirely obviated, while at the same time the slate is held in a very secure and perfect manner.

The tin heads or thin metal caps have considerable spring, since the center part is drawn down by the action of the nail into the "flaked" part or concave in the slate occasioned by the punching process, as before explained.

The size of the tin caps or heads may be of any desired size. I prefer, however, to have them about an inch in diameter for general use. They may be larger or smaller, however.

Having described my improved nail for fastening slate, what I claim therein as new and of my invention, and desire to secure by Letters Patent, is—

A nail for fastening slate, having a thin tin or other metal cap or head, A, secured to the body B'' of the nail by means of metal a, cut or scraped from the corners of the nail and forced against the cap, substantially as shown and described.

THOMAS O'GARA.

Witnesses:

THOS. H. DODGE,  
E. E. MOORE.