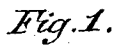


Patented June 22. 1869.



Geo. R. Smith.
Geo. W. Spaulding
per J. A. Morley
Atty.

United States Patent Office.

GEORGE W. SPAULDING AND GEORGE R. SMITH, OF SYRACUSE
NEW YORK.

Letters Patent No. 91,683, dated June 22, 1869.

IMPROVEMENT IN BRACKET-CLAMP.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that we, GEORGE W. SPAULDING and GEORGE R. SMITH, of Syracuse, in the county of Onondaga, and State of New York, have invented a new and useful Improvement in Bracket-Clamp for Shingling; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side view of our improved clamp, and Figure 2 shows the same in use.

Similar letters of reference indicate like parts.

This invention consists in certain improvement in shingling-clamp, whereby a more secure and convenient device is obtained, as hereinafter explained.

In the accompanying drawings, A A are a pair of jaws, which are pivoted together at B, in the usual manner.

Instead of giving the lower jaw a hooked shape, as heretofore, we make it of a wedge-shape, and project it out beyond the upper jaw, as shown by *a*, fig. 1, and give the upper side of this jaw a serrated surface; and by this construction the lower jaw is pushed under the end of the shingle, and inserted at once, without having to previously raise the end of the shingle.

On the heel of the lower part, A, we provide a series of teeth, *c*, which also bites in the next shingle below, as shown in fig. 2, and by adding to the holding-power of the clamp, makes it more secure in its position.

We also employ a cam-lever, D, in place of the ordinary screw-bolt, for spreading the rear parts of the jaws, by which the jaws are operated more expeditiously than ordinarily.

The lever D occupies a slot or recess in the upper part, A, in such manner that it is retained by the rivet B; and as the parts are made of malleable cast-iron, and the only fitting in its manufacture is the riveting of the parts together at B, it is cheaply constructed.

By these means we obtain a clamp of greater holding-power, and which is also operated with the greatest facility.

We do not claim a pair of clamping-jaws, for seizing the end of the shingles, as shown in patent, No. 52,757; but

What we claim, and desire to secure by Letters Patent, is—

The jaws A A, hinged at B, the lower jaw being serrated and wedge-shaped at one extremity, and projecting beyond the upper jaw, in combination with the cam-lever D, all constructed, arranged, and operated in the manner and for the purpose set forth.

The above specification of our invention signed by us, this 22d day of May, 1868.

GEORGE W. SPAULDING.
GEORGE R. SMITH.

Witnesses:

WM. DUNCAN,
F. A. MORLEY.