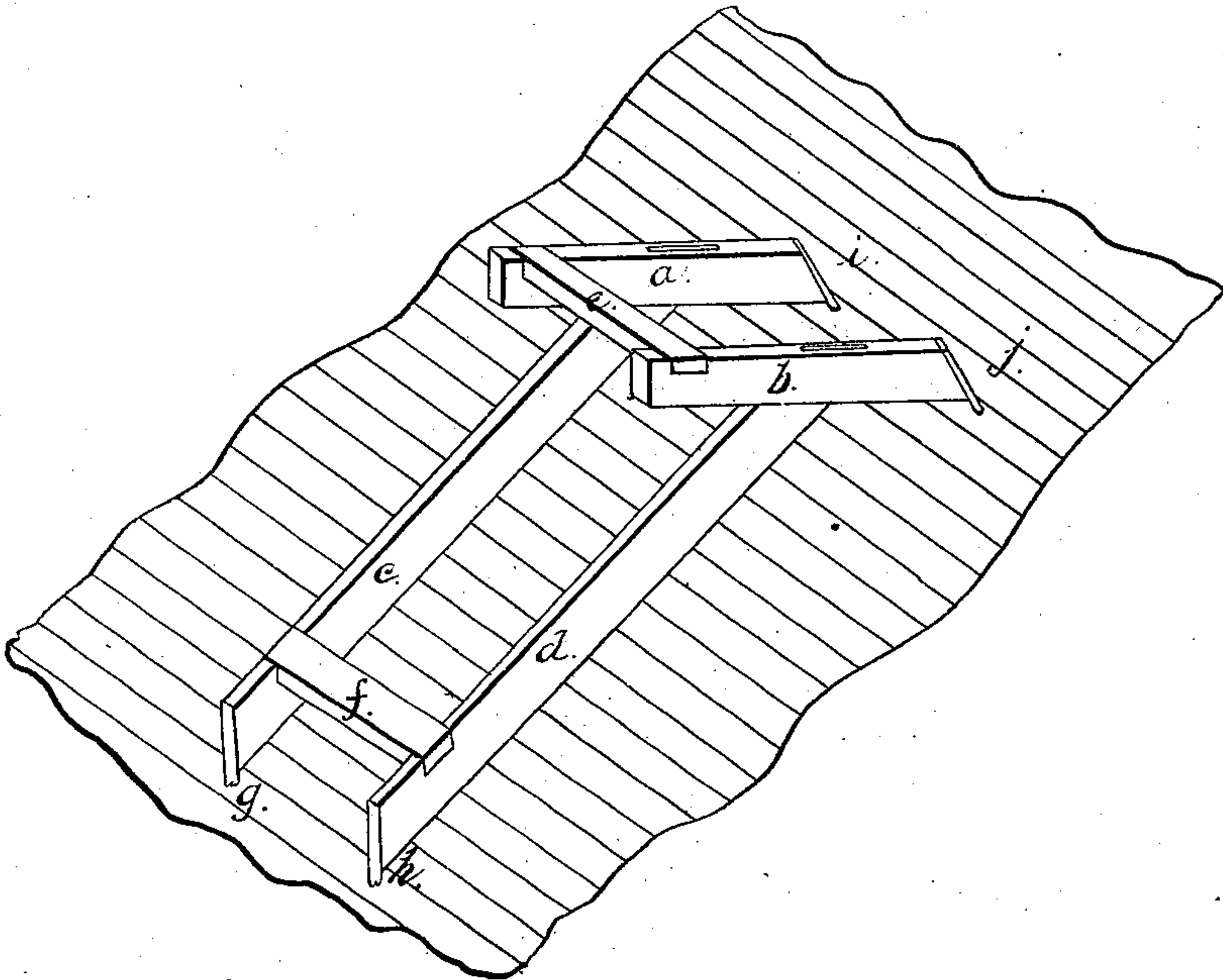


J.E. Lang,

Shingling Bracket,

Nº 85,314,

Patented Dec. 29, 1868.



Witnesses:

Mr. Franklin J. Avery
Henry C. Houston

Inventor:

J. E. Lang
Per Wm. H. Hays, atty.



J. E. LONG, OF NORWAY, MAINE.

Letters Patent No. 85,314, dated December 29, 1868.

IMPROVED STAGING.

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

To all whom it may concern :

Be it known that I, J. E. LONG, of Norway, in the county of Oxford, and State of Maine, have invented a new and useful Improved Staging for Roofs; and I hereby declare the following to be a full, clear, and exact description thereof, which will enable others to make and use my invention, reference being had to the accompanying drawings, forming part of this specification, in which is shown a perspective view of my invention, as seen when in use.

In shingling the roofs of buildings, or performing other work thereon, a staging of some kind is required for the support of the workman and his tools. It is usual to construct it by nailing cleats to the roof, and fastening braces to them, or by some like device. This takes the time of the men, and even then, is not always secure, as the many instances of falling stages prove. As the work proceeds, the stage and supports have to be moved up or down, as the case may be.

A device by which these difficulties may be obviated, and a stage which may be quickly and securely erected, and moved when necessary, is the subject of my invention. The accompanying drawings show the nature of it.

It is composed either of wood or iron, and consists of the cross-pieces *a b*, which are supported by the braces or standards *c d*. These pieces are fastened together by the bars *e f*.

At the extremities *g h* of *c d* are fastened plates of iron, the lower ends of which are toothed, as shown in

the drawing, so as to take a firm hold of the boards or shingles of the roof.

The ends *i j* of *a b* are arranged in like manner.

The boards of the stage or scaffold are laid across on *a b*, extending to another support of a like kind, placed at a convenient distance.

The teeth on the plates are forced into the roof by the weight of the laborers, and held more firmly, the more weight there may be applied. A sudden shock, instead of, as at present, tending to break down the scaffold, only makes it more secure, and when it becomes necessary to change its position, it can be done expeditiously and with safety.

This device is adapted to roofs of any pitch, and performs its office equally well whether the roof be steep or not.

The inclination of the posts *a b* to *c d* is such that when the device is placed upon the roof of a building, the parts *a b* form a horizontal or a nearly-horizontal support for the boards, &c., upon which the workmen may stand.

What I claim as my invention, and desire to secure by Letters Patent, is—

The improved portable and self-fastening staging, as described, and for the purposes set forth.

J. E. LONG.

Witnesses:

A. OSCAR NOYES,
S. G. HATCH.