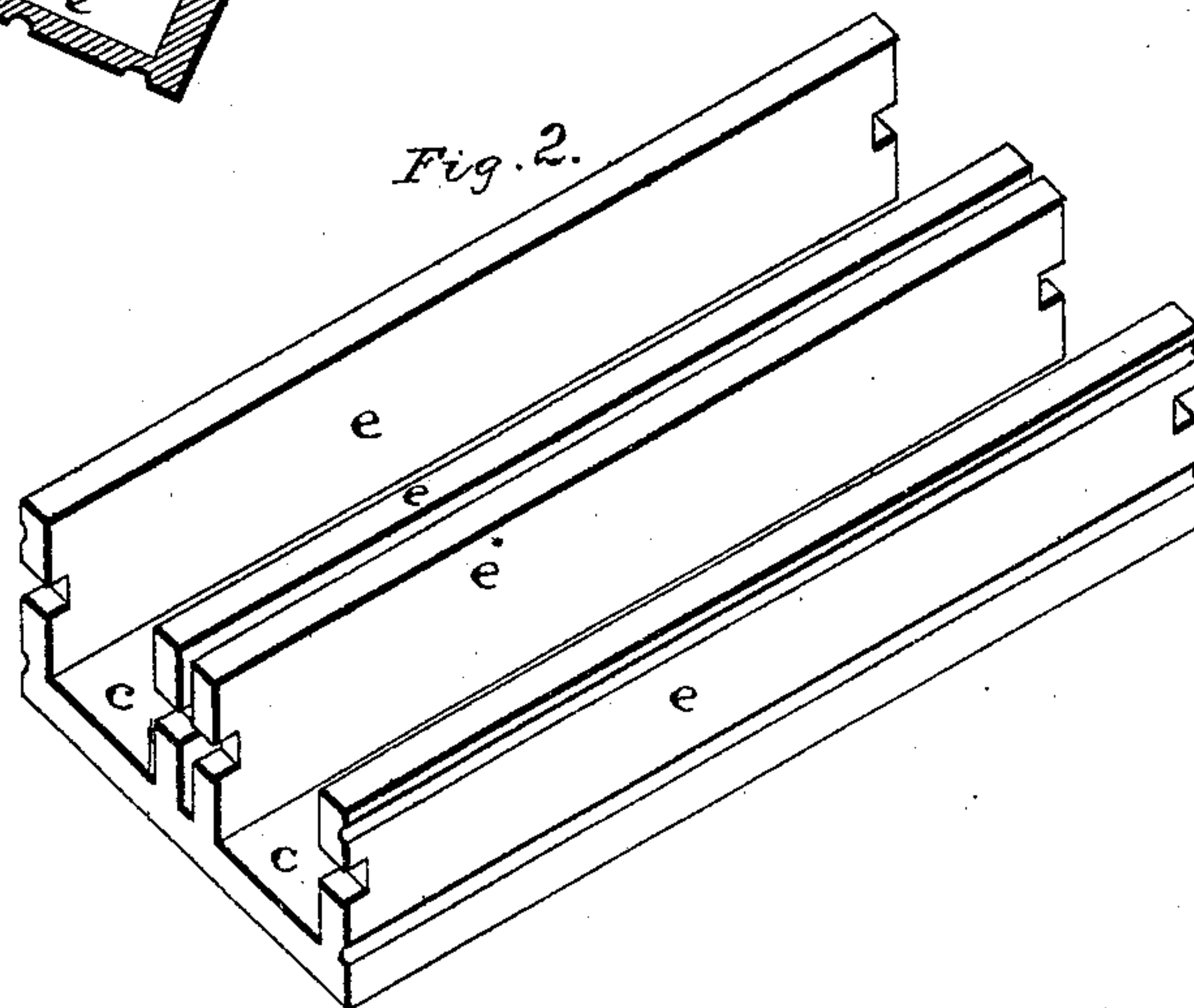
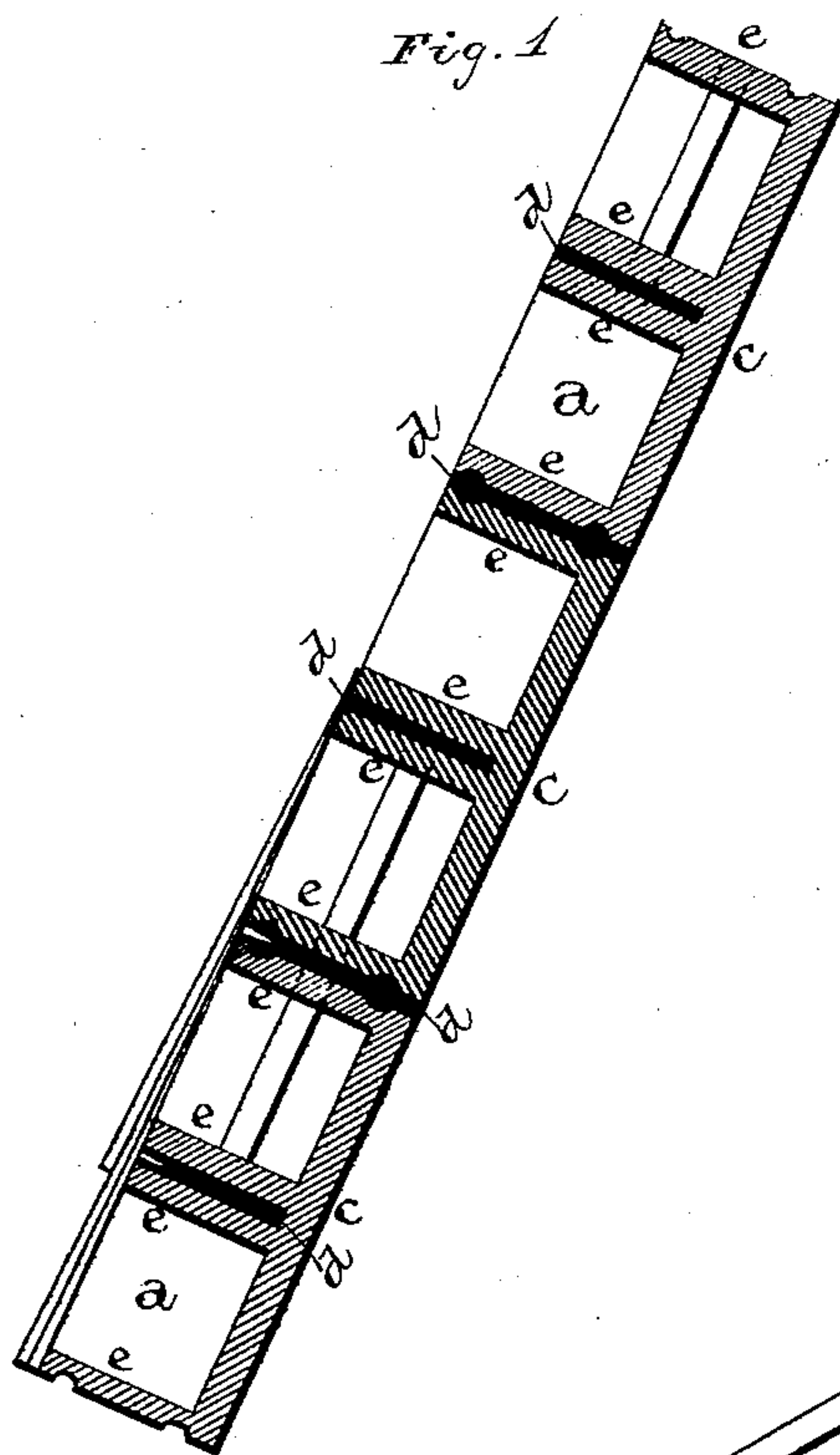


M. H. FOWLER.
Fire-Proof Mansard Roofs.

No. 149,460.

Patented April 7, 1874.



WITNESSES.
J. W. Farmer
Edw. H. H. H.

INVENTOR.
M. H. Fowler
per
F. A. Lehmann, Atty

UNITED STATES PATENT OFFICE

MINARD H. FOWLER, OF NEW YORK, N. Y.

IMPROVEMENT IN FIRE-PROOF MANSARD ROOFS.

Specification forming part of Letters Patent No. **149,460**, dated April 7, 1874; application filed March 9, 1874.

To all whom it may concern:

Be it known that I, MINARD H. FOWLER, of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Mansard Roofs; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form a part of this specification.

The nature of my invention relates to an improvement in Mansard roofs; and it consists in open-faced tiles, each one of which has a number of flanges formed upon the top of the base-plate, in between which flanges mortar or cement is poured, for the double purpose of securing the tiles together and forming a means of fastening the tiles in position, as will be more fully described hereafter.

The accompanying drawings represent my invention.

a represents the supporting iron rafters, which extend parallel up the side of the roof, and upon which the tiles are supported. These rafters may be made of cast-iron, having alternate flanges upon each side, so as to stiffen the rafters and to support the tiles in position, or

they may be of any other form desired. The tiles consist of the bed-plate *c*, upon the face of which are formed a number of flanges, *e*, of any suitable height or thickness. Generally I prefer to form four of them, one upon each edge, which abuts against the flange on the adjoining tile, and two in the center of the plate, which are just near enough together to receive a good layer of mortar or cement, *d*, into which the nails which hold the slate in position are driven.

By thus forming the tiles with open faces and flanges, much shorter and smaller pieces of slate can be used; or the slate can be put on in layers of three or more thicknesses, if so desired, where the pieces are slightly longer than usual. The tiles are much lighter, and can be much more cheaply made.

Having thus described my invention, I claim—

Tiles for roofs, consisting of the bed-plate *c* and flanges *e*, substantially as set forth.

In testimony that I claim the foregoing, I have hereunto set my hand this 3d day of March, 1874.

MINARD H. FOWLER.

Witnesses:

SAMUEL CURTISS,
EMILE WAGNER.