UNITED STATES PATENT OFFICE.

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ROOF-FLASHING INSERT.

1,091,611.

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To all whom it may concern:

Be it known that we, WILLIAM A. WITTEBECKER and FRANK G. WITTEBECKER, citizens of the United States, residing at St. Paul, in the county of Ramsey and State of Minnesota, have invented a new and useful Improvement in Roof-Flash Inserts, of which the following is a specification.

This invention has for its object the production of a device for use in building structures which is adapted to produce a tight joint for flashing between the roof of a building and an adjacent wall.

In the construction of roofs it has heretofore been difficult to produce a water proof joint where the roof is built contiguous to a wall rising above the roof or around chimneys and it is a purpose of this invention to provide a simple and effective device which is adapted to assist in producing an absolutely water tight joint and which is easy and inexpensive to apply in use.

This invention is particularly adapted for use in concrete, cement, brick and stone walls although it is not confined to this use alone.

After it has been applied the flashing of a roof may be connected to it and removed when desired making the device particularly advantageous for use because a roof can be robbed without injuring the device or requiring its removal.

By the accompanying drawing forming part of this specification, Figure 1 is a section of an elevation of a detail of a roof and wall contiguous thereto and being represented as constructed of cement blocks, our invention being shown applied thereto before the sheet metal roof has been laid; Fig. 2 is a sectional detail view showing the metal roof applied to the insert in finished condition and Fig. 3 is a perspective of a detail of the insert before it is used.

A represents a detail of a roof which is adapted to be covered with sheet metal, tar paper or any other roofing material.

B represents a portion of the wall contiguous to the above said roof with the desire to construct a wall tight joint between said parts in which flashing is employed. In building the wall B what we have chosen to term an insert C is placed horizontally or flush with the roof in the cement mortar or other building material between the blocks above the roof A. When the wall

B is formed of concrete or cementitious material and molded into a monolithic structure the insert C is placed in position in the wall during the molding process and the cementitious material allowed to set firmly around the same to hold it in place. Cement mortar between blocks is illustrated and is adapted to set in the usual manner sealing the insert in place.

The insert consists of a strip of material folded along a longitudinal line and bent upwardly adjacent said folding line thus forming upper and lower contiguous sides D and E and an upwardly projecting shoulder F at its median portion. The upper side D is allowed to remain flat while the insert is being applied to the wall and the lower side E has its outer end bent down to form an outer stop G. This device as described is made up in lengths suitable for constructing roofs of any desired dimensions. The insert is laid between the blocks adjoining but above the roof while in the course of erecting the wall B, the device being placed with the shoulder G downward and butting closely against the outer surface of the wall.

The insert is laid in the cement mortar and the process of constructing the wall continued upwardly in the ordinary manner. After the mortar has set the inner stop F and the friction between the mortar and the sides of the insert prevent removal or loosening of the insert. The roofing H made of sheet metal or other suitable material is then laid in the usual manner, its side edge being bent upward to form a flashing I or a separate flashing being employed said flashing being inserted between the sides D and E of the insert and bent downwardly over the stop G. After the flashing has been inserted the projecting end of the upper side D is bent down by hammering or pressing it over the flashing thus forming a drip flange J which prevents any water creeping into the insert and below the roofing material.

When it is desired to remove the flashing for the purpose of repairing the roof or to renew an old and leaky roof the drip flange J may be bent up and the flashing withdrawn and a new flashing reinserted. It is obvious that the insert may be variously modified in construction and that it may be used in connection with concrete, stone, brick or any other form of wall desired when the equivalent of flashing is employed and it is further obvious that the insert may be made out of any suitable material such as sheet metal or fiber or other
material chemically treated. Should the weight of the roof above the insert cause the sides of the insert to close and prevent the insertion of the flashing a narrow strip of thin metal the thickness of the sheathing or flashing on the roof may be temporarily inserted in the insert between its sides during the process of building a wall and then withdrawn after the material of the wall has set, leaving a space between the sides of the insert into which flashing may be easily inserted.

In accordance with the patent statutes we have described the principles of operation of our invention together with the construction which we now consider to represent the best embodiment thereof but we desire to have it understood that the construction shown is only illustrative and that the invention can be carried out by other means and applied to uses other than those above set forth within the scope of the following claims.

Having described our invention, what we claim as new and desire to protect by Letters Patent is:

1. A flashing insert adapted to be sealed in a wall during construction consisting of a strip of material folded along a longitudinal line to form contiguous upper and lower sides and adapted to extend the full length of the edge of the flashing, a pair of sides of said strip being bent up adjacent the line of said fold to form a shoulder at its median portion, said lower side being bent down to form a stop for defining the distance the insert is placed in the wall and said upper side extending in flat condition beyond the side of said wall before the edge of the flashing is inserted in said wall between said sides and adapted to be bent down in position to form a drip flange over said flashing and prevent moisture and wet entering between the edge of said flashing and the sides of said insert.

2. A flashing insert adapted to be sealed in a wall during construction consisting of a strip of material folded along a longitudinal line to form contiguous upper and lower sides and adapted to extend the full length of the edge of the flashing, one of said sides being formed with means for positively engaging the material in the wall, said lower side being bent down to form a stop for defining the distance the insert is placed in the wall and said upper side extending outwardly from the side of said wall before the edge of the flashing is placed between said sides and adapted to be bent down in position to form a drip flange over said flashing and prevent moisture and wet entering between the sides of said insert and passing over the edge of said flashing.

In testimony whereof, we have signed our names to this specification, in the presence of two subscribing witnesses.

WILLIAM A. WITTBECKER.
FRANK G. WITTBECKER.

Witnesses:
G. M. DEEBACH,
F. G. BRADBURY.