J. GRUBER.

METALLIC SHINGLE.

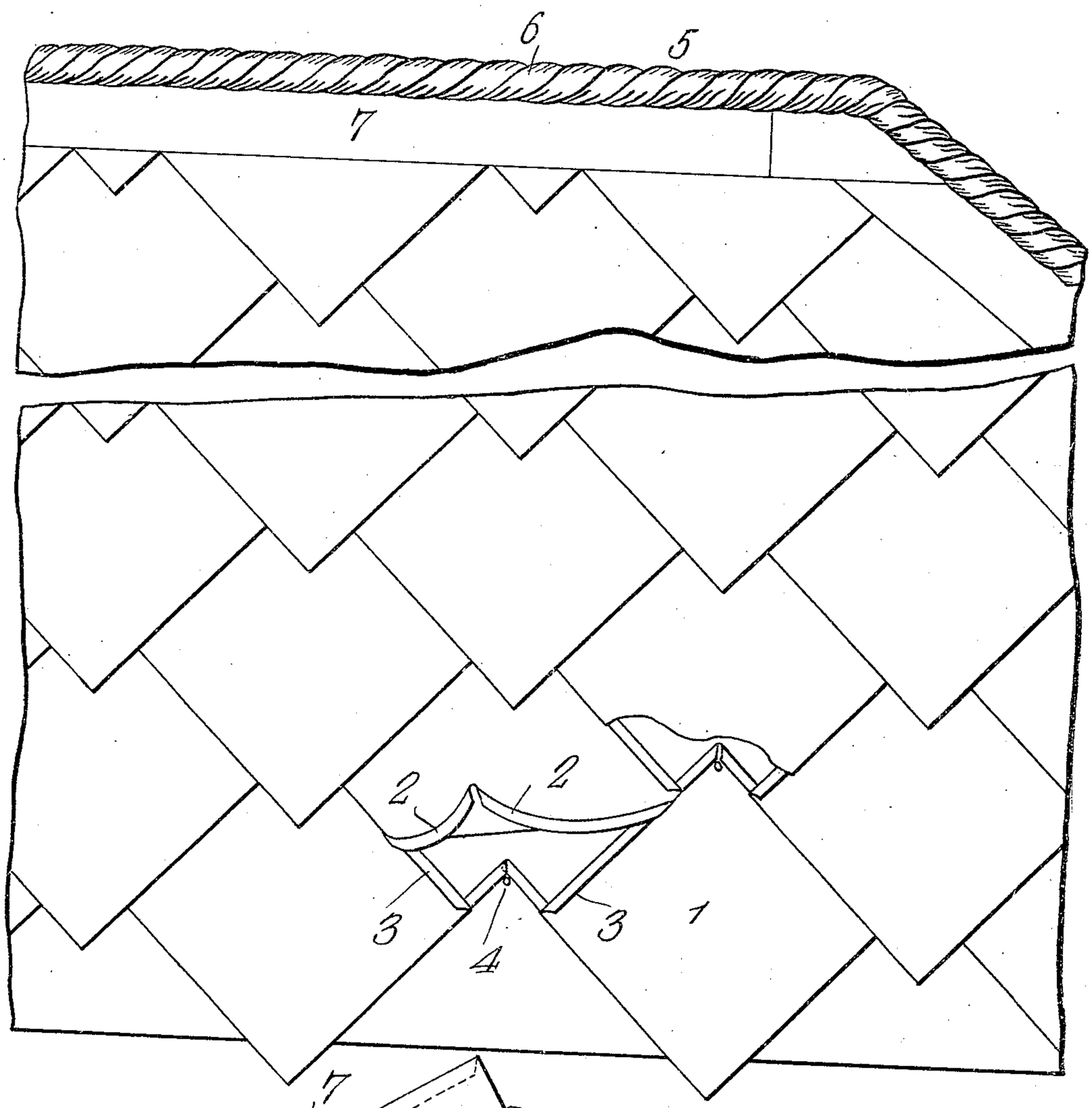
APPLICATION FILED DEC. 2, 1908.

954,796.

Patented Apr. 12, 1910.

2 SHEETS—SHEET 1.

Fig. 1.



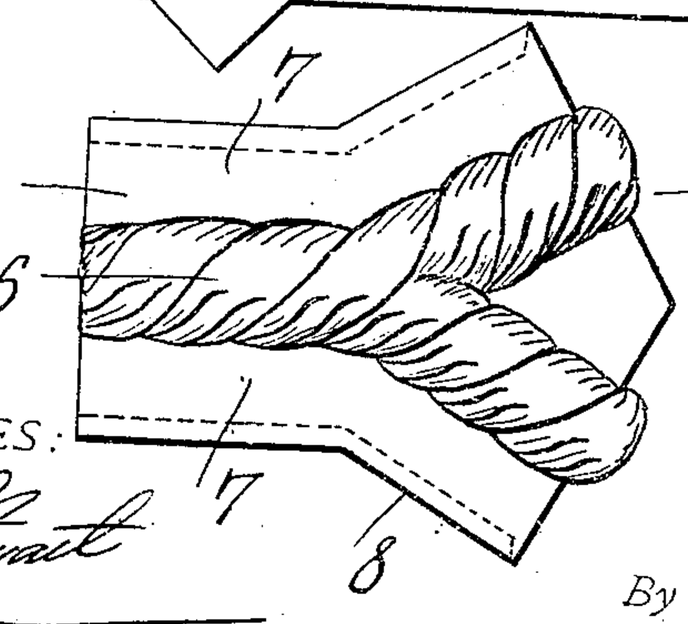




Fig. 2.

WITNESSES:

E. C. Stewart

E. Hamilton Atty

Joseph Gruber,

INVENTOR.

By C. A. Snow & Co.

ATTORNEYS.

J. GRUBER.

METALLIC SHINGLE.

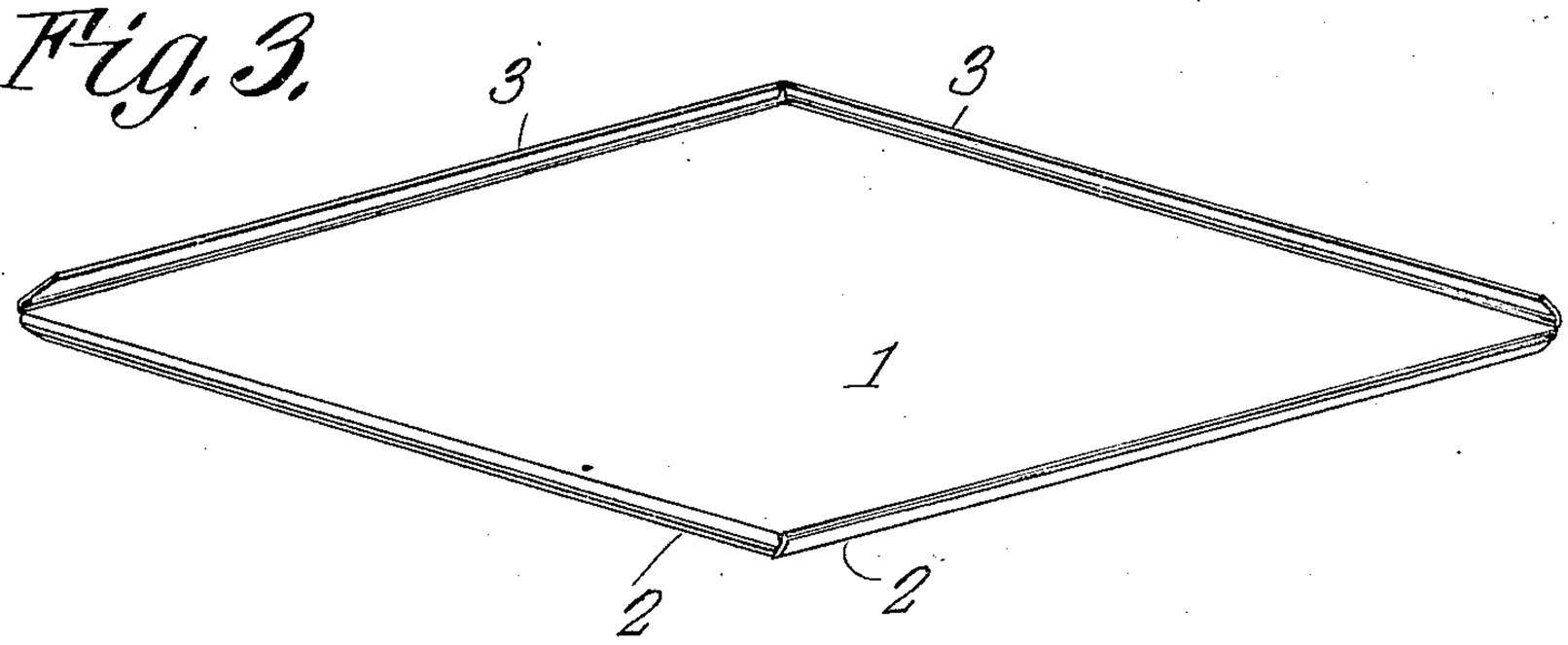
APPLICATION FILED DEC. 2, 1908.

954,796.

Patented Apr. 12, 1910.

2 SHEETS—SHEET 2.

Fig. 3.



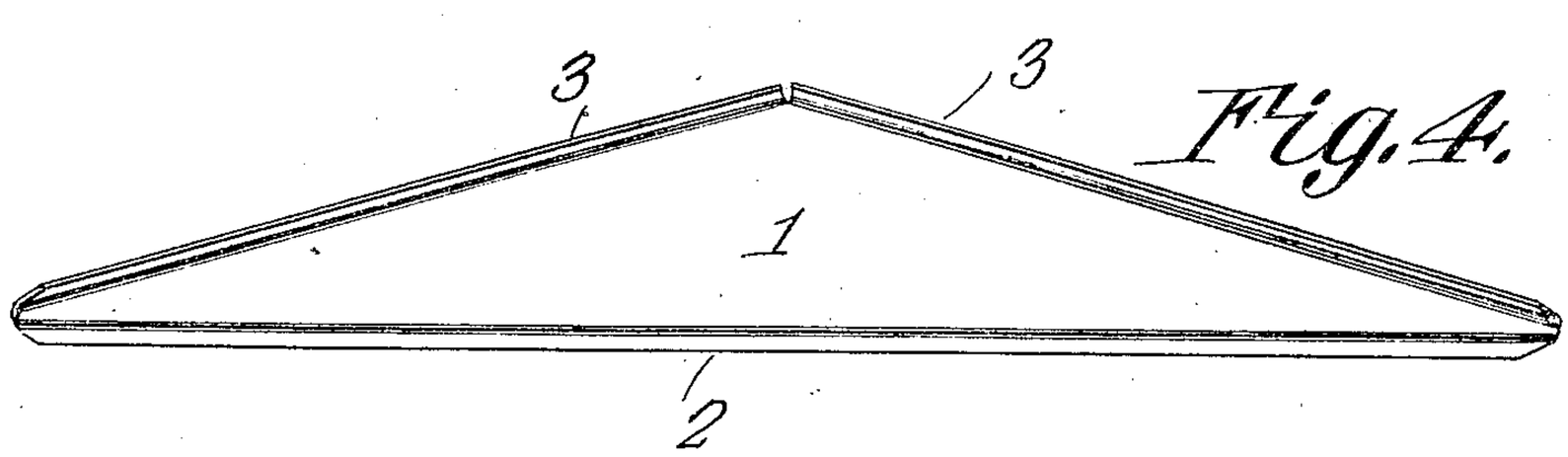




Fig. 4.

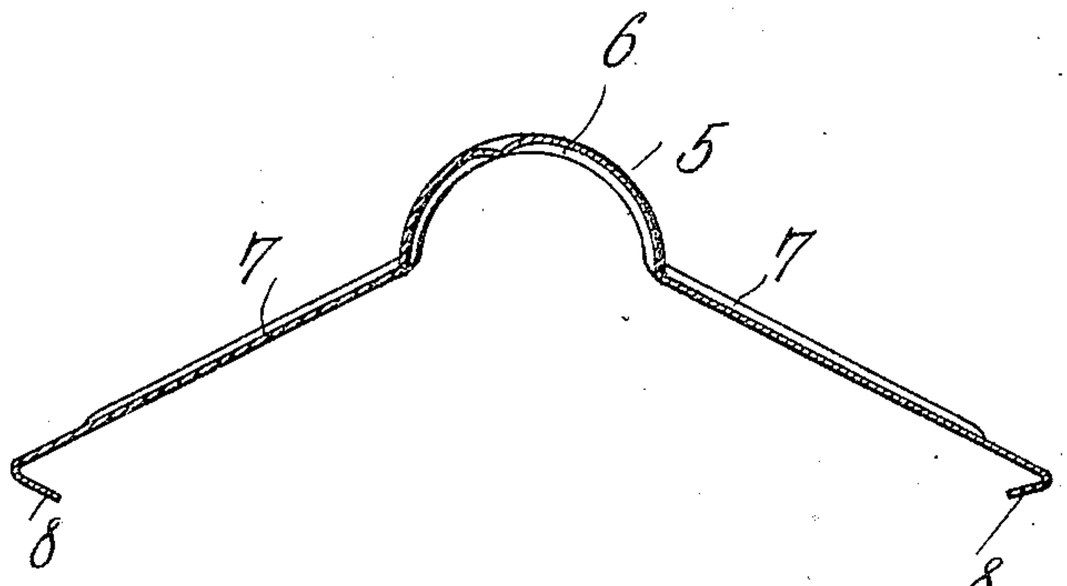



Fig. 5.

WITNESSES:

E. F. Stewart

F. Hume, Jr.

Joseph Gruber,
INVENTOR.

By Crow & Co.
ATTORNEYS

# UNITED STATES PATENT OFFICE.

JOSEPH GRUBER, OF YBOR CITY, FLORIDA, ASSIGNOR OF ONE-HALF TO MORRIS CROCOWANER, OF TAMPA, FLORIDA.

## METALLIC SHINGLE.

954,796. Specification of Letters Patent. **Patented Apr. 12, 1910.**

Application filed December 2, 1908. Serial No. 465,599.

*To all whom it may concern:*

Be it known that I, JOSEPH GRUBER, a citizen of the United States, residing at Ybor City, in the county of Hillsboro and State of Florida, have invented a new and useful Metallic Shingle, of which the following is a specification.

This invention has relation to metallic shingles and it consists in the novel construction and arrangement of its parts as hereinafter shown and described.

The object of the invention is to provide a shingle of the character indicated which is of regular configuration and which is provided at opposite edges with oppositely disposed flanges, the flanges of one shingle being adapted to interlock with the flanges of the adjacent shingles in such manner as to form a tight roof with practically a continuous metallic coating. Any suitable design may be placed upon the shingle or stamped in the body thereof for ornamental purposes. In connection with the shingle an interlocking coping is employed which is provided with an intermediate portion which is substantially semi-circular in transverse section and which is adapted to fit over the gable of the roof, said coping being provided with flanged edges which interlock with the shingles. A coping so formed permits of expansion and contraction of the metal as the semi-circular portion will open and close as the metallic roofing expands or contracts.

In the accompanying drawing:—Figure 1 is a plan view of a section of roof covered with the metallic shingles and coping. Fig. 2 is a plan view of a branch of the coping. Fig. 3 is a perspective view of a shingle. Fig. 4 is a perspective view of a half shingle. Fig. 5 is a transverse sectional view of the coping.

The shingles are substantially rectangular in side elevation and are formed from a sheet of metal 1 which is provided with the flanges 2, 2 located at adjacent edges of the said sheet 1 and which lie upon one side of the said sheet. The other edges are provided with the flanges 3, 3 which lie upon the opposite side of the sheet from the flanges 2. The flanges 3 of one shingle engage the flanges 2 of the adjacent shingles and are beaten down to form a tight joint. A brad 4 is passed through each shingle and driven into the roof of the building and the shingles of the tiers above overlap the nails 4 of the lower shingles. A coping 5 is provided in combination with the shingles, said coping consisting of the intermediate portion 6 which is substantially semi-circular in transverse section. The said coping is also provided with integral side shingles 7 which in turn are provided with the flanges 8 at their edges. The said coping is adapted to fit over the gable of the roof and the flanges 8 interlock with flanges provided upon the adjacent shingles. As the metallic roof thus formed expands or contracts due to the changes of temperature the semi-circular portion 5 of the coping will compensate for such expansion and contraction and at the same time preserve the integrity of the roofing.

Having described my invention what I claim as new and desire to secure by Letters-Patent is:—

A coping branch consisting of a metallic plate having a widened and inclined end portion provided with flanges along the side edges thereof and merging into corresponding flanges along the side edges of the main portion of the branch, said coping having an arched yielding portion extending along the longitudinal center of the main portion thereof and forked, the forked portion being extended along the inclined end of the branch.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

JOSEPH GRUBER.

Witnesses:
JAS. F. FERER,
SAML. BORCHARDT.