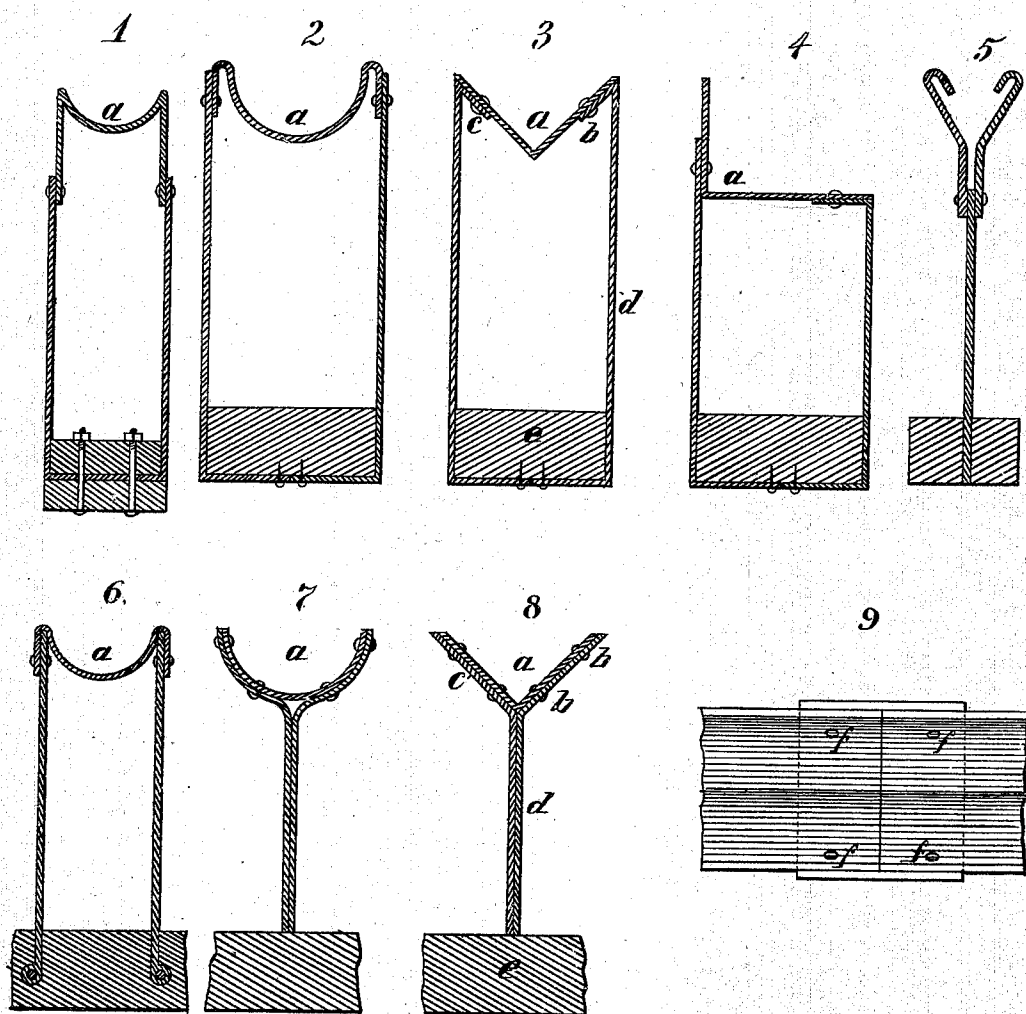


T. McCLUNIE.
Metallic Gutters.

No. 139,324.

Patented May 27, 1873.



Witnesses.

J. B. Barnes.
Jerry W. Bliss.

Inventor:

Thomas H. Clunie

UNITED STATES PATENT OFFICE.

THOMAS McCLUNIE, OF HARTFORD, CONNECTICUT.

IMPROVEMENT IN METALLIC GUTTERS.

Specification forming part of Letters Patent No. **139,324**, dated May 27, 1873; application filed October 7, 1872.

To all whom it may concern:

Be it known that I, THOMAS McCLUNIE, of the city and county of Hartford and State of Connecticut, have invented certain Improvements in Lawn or Walk Gutters, or Curb and Gutters; and to enable others skilled in the art to make and use the same I will proceed to describe it, referring to the accompanying drawings, in which the same letters indicate like parts in each of the figures.

The nature of this invention consists in a new manufacture of metallic gutters, or curb and gutters, uniting them at their ends by lapping one over the other, or by abutting one against the other, or overlapping the joints by a corresponding-shaped plate and securing them firmly together; also, in securing or holding said gutters in their desired place and position by bands or rods attached to the outer surface of the gutters by one end while the other end extends downward into the ground, below a point reached by frost, and secured to timbers to insure their fixed position.

In the accompanying drawings, I have shown several ways in which the full object of this improvement can be effected. *a*, Fig. 8, shows a V-shape gutter, the ends of which are secured by rivets *b* to the Y-shape bands, or arms *c*, at the upper end while the lower end of said bands, arms, or rods *d* are firmly secured to a timber, *e*, embedded in the ground below the reach of frost. The other views show various ways of arranging and attaching the parts together to accomplish the same object, and gutters of different shapes, but all on the same general principle.

The advantages of this improved manufacture of gutters are, durability, neatness, and

cheapness, as in many instances they are cheaper than stone or pavements, and will not get out of order or place, as the joints are secured together by coupling-plate, or by overlapping each other and joining them firmly together by rivets *f*, or other known ways of securing metal together. The timber or base *e* is designed to be firmly bedded in the ground, below the action of frost, and may be provided with a much larger surface than the gutters, iron rods, &c.

This improvement will be found practicable in many places where pavement and stones cannot be permanently placed without an unreasonable outlay for under-draining, and even where under-draining is impracticable, in such places as where clay and quicksands abound. It is an invaluable device for parks, cemeteries, and private residences, and is well adapted to supply a want so often felt to keep water from flowing over sidewalks of village residences, where the lawn is higher than the sidewalks. It also makes a perfect finish for concrete, stone, or gravel walks.

I believe I have thus shown the nature, construction, and advantage of this invention so as to enable others skilled in the art to make and use the same therefrom.

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

An improved manufacture of metal curb or gutter *a*, held in place or position in the ground by supports or rods *d* attached or secured to base-timber *e*, substantially as and for the purpose set forth.

THOMAS McCLUNIE. [L. S.]

Witnesses:

J. B. BARNES,
JEREMY W. BLISS.