To all whom it may concern:

Be it known that I, VICTOR E. FLODIN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Wall or Ceiling Plates, of which the following is a specification.

This invention relates to wall or ceiling plates designed to cover the openings provided in walls or ceilings for the reception of steam, water, gas, and other pipes.

One of the primary objects of the invention is the provision of an improved plate which is light, simple and economical in construction and which can be placed in position or taken apart and removed with great facility.

Another object of the invention resides in providing a plate composed of sections having a novel interengaging locking means of such character as to permit of the pressing of the sections from the blanks, the completed sections being counterparts of each other.

My invention also contemplates certain novel details of construction and arrangement of parts more particularly described hereinafter and pointed out in the claim.

The foregoing, together with such other objects as may hereinafter appear or incident to my invention I attain by means of a construction which I have illustrated in preferred form in the accompanying drawings, wherein—

Figure 1 is a plan view of the top of one of the halves or sections of the device when used as a ceiling plate; Fig. 2 is an end view of Fig. 1; Fig. 3 is a plan view of an assembled plate; Fig. 4 is a section on the line IV—IV of Fig. 3; Fig. 5 is an enlarged view of a detail of the invention; Fig. 6 is a view of one of the blanks from which the halves or sections of the plate are stamped; and Fig. 7 is a somewhat diagrammatic illustration of the application of my invention.

Referring now to the drawings, the ceiling plate which I have designated as a whole by A is comprised of two sections 7 which are counter-parts of each other and which are substantially semi-circular in form, each half or section having an upturned semi-circular neck portion 8 adapted to embrace the pipe and a base portion 9 adapted to fit against the wall or ceiling. Each section of the plate is provided with a loop portion 10 and a tongue portion 11 arranged on opposite sides, both of which are formed integral with the section.

Referring to Fig. 6, which is a plan view of the blank from which the halves or sections of the plate are pressed, it will be seen that the blank comprises a semi-annular plate 60 90 provided with a tongue-like strip 10 90 projecting from the periphery of the blank and which is pressed into the form of the loop 10; and with a portion 11 90 from which the tongue 11 is formed and which also projects from the periphery of the blank and is substantially of a right angular shape. The section 10 90 is bent inwardly over the blank in such manner as to provide a groove or loop portion 12 70 for the reception of the tongue 11 70 and having its free end turned as at 13. The portion 11 90 is bent inwardly until it lies flush with the surface of the base 9 in which position the tongue portion 11 90 projects beyond the meeting face or edge of the section, 75 the loop 10 90 being flush with said edge. The tongue 11 90 has a rib or bead 14 90 formed adjacent its outer edge. A hole 15 90 is stamped in the neck 8 of each section. When assembling the two sections or halves of the plate, 80 it will be seen that the tongues 11 90 on opposite sections fit into the loop portions 10 90 of the sections. The loops are sufficiently springy to permit the insertion of the tongue portions 11 90 but snap back after the ribs 14 90 have passed the inner edges of the loops. When the two halves are thus assembled, the spring of the loops is sufficient to hold the parts together because of the engagement of the edges of the loops by the ribs on the tongues. 90 At the same time the two halves may be readily separated. After the sections of the plate have been secured together about a pipe and the plate has been brought flush with the floor or ceiling, a small set screw 16 95 is threaded into one of the openings 15 95 and serves to hold the plate in proper position on the pipe.

From the foregoing it will be apparent that both halves of the plate can be pressed from the same blank and are counterparts of each other, this being made possible by the peculiar arrangement of interlocking loop and tongue portions. The device is simple and inexpensive in construction and the sections can be readily secured together or taken apart.

By my construction I am enabled to press
each section from a single piece of metal without defacing any portion of the section exposed to view, this being made possible by forming the tongue and loop portions of the 5 sections from metal extending beyond the periphery of the semi-annular blank.

What I claim is:

A stamped metal ceiling plate comprising two counter-part, self-locking detachable sections having meeting edges, each section being composed of a semi-circular body portion having a spring loop bent over from a portion thereof adjacent one of the meeting edges, and having one end free, and being provided with a tongue bent over from the other meeting edge and projecting therebeyond, said tongue being also provided with a bead at the extremity thereof, the loop of each section being adapted to receive and hold the tongue of the other section, so that 20 the tongues lie between the loops and the faces of the sections, and the beads on the tongues engage the inner edges of the loops, whereby the sections are locked together against separation laterally and also longitudinally of the pipe relatively to each other.

In testimony whereof I have hereunto signed my name in the presence of the two subscribed witnesses.

VICTOR E. FLODIN.

Witnesses:

J. H. WRAITH,
W. C. PETERSON.

Copies of this patent may be obtained for five cents each, by addressing the “Commissioner of Patents, Washington, D. C.”