Jan. 5, 1937. P. J. MAUL 2,067,059

BUILDING UNIT

Filed March 16, 1936

FIG.1.

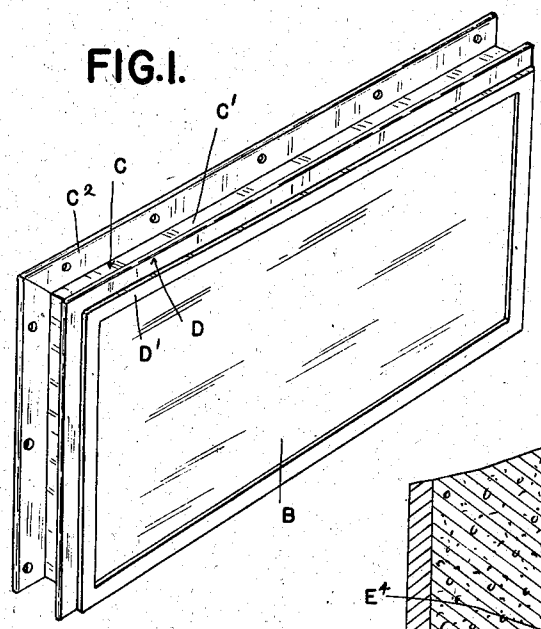


FIG.3.

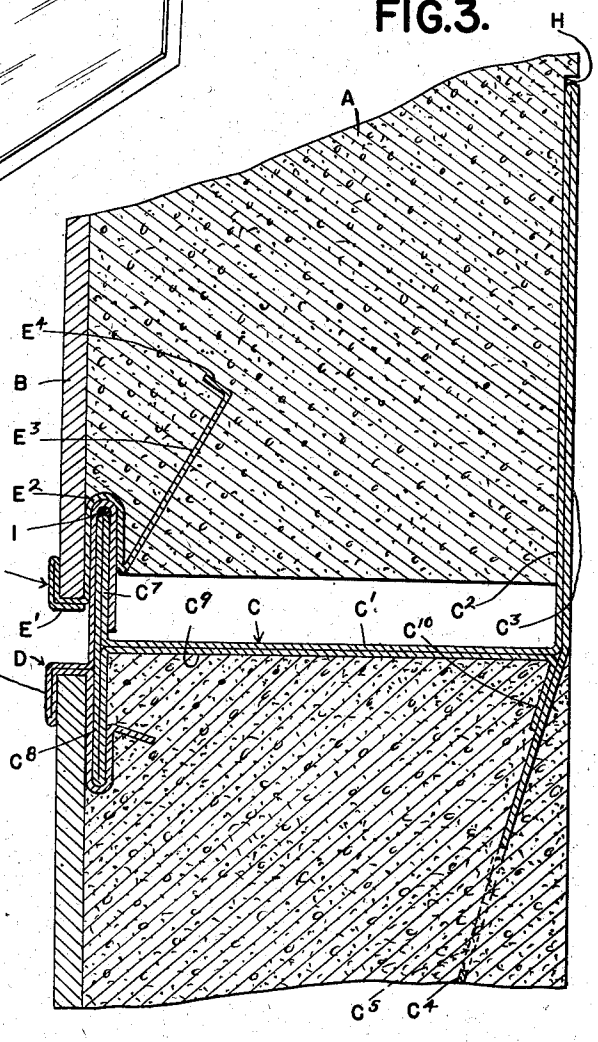
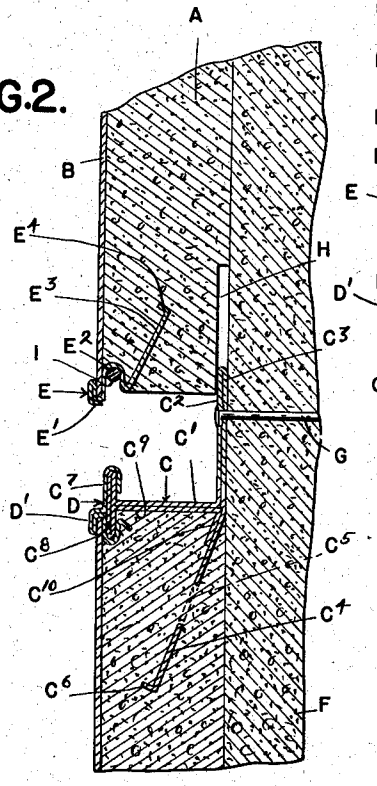


FIG.2.



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BUILDING UNIT

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19 Claims. (Cl. 72—20)

The invention relates to building units of that type more particularly designed for use for forming an ornamental facing of a building wall. It is the primary object of the invention to obtain a construction which can be easily applied to the supporting wall and without the necessity of using cement or mortar. It is a further object to form a joint between adjacent units which is weather-proof and which will hold the units in accurate alignment with each other. With these objects in view, the invention consists in the construction as hereinafter set forth.

In the drawing:

Figure 1 is a perspective view of one of the units;

Figure 2 is a cross-section showing portions of two adjacent units and the manner in which they are secured to each other and to the supporting wall;

Figure 3 is an enlarged view illustrating the construction of the edging strips.

The body of the unit may be formed of any suitable material provided with an ornamental outer face. Preferably, I form this body of concrete or other cementitious material, while the facing is formed of a variety of materials. Thus, I may employ for the facing non-corrodible sheet metal, enameled or painted metal or sheeting or any material which will withstand the weather and will give the desired finish. As illustrated, A is the body of the unit and B the facing. This facing is preferably secured to the body by a marginal frame overlapping the edges thereof, as well as by intermediate anchors projecting from the underside of the facing and embedded in the body. To secure the units to the supporting wall and also to form the joint between adjacent units, I have provided the following construction. C is a strip of some non-corrodible metal, such as copper, which is applied to certain edges of the unit and is securely anchored thereto. This strip is fashioned to form a projecting flange arranged substantially in the plane of the rear face of the unit and adapted for the engagement of the fasteners which secure the unit to the supporting wall. As specifically illustrated, the strip C has a portion C′ extending across the edge of the unit being then bent to form the outwardly extending portion C^2 and a return-bent portion C^3, these being substantially in the plane of the rear face of the unit. There is also an inclined anchor portion C^4 embedded in the body and provided at intervals with apertures C^5 through which the cementitious material can flow to form ties between the portions of the body on opposite sides thereof. At the lower end of the portion C^4 is a bent flange C^6 which forms a further anchorage. Adjacent to the front face of the block the portion C′ is bent and return-bent as indicated at C^7 to form a projecting tongue and is further return-bent to form a T-shaped portion C^8 with a portion C^9 extending parallel and adjacent to the portion C′, terminating in a portion C^{10} parallel and adjacent to the portion C^4. The marginal frame D which secures the facing B to the block A is attached to the portions C^7 and C^8 being bent to embrace these portions and also to form a portion D′ which over-laps the edge of the facing.

The strip C fashioned as just described is applied to only the top and one of the side edges of a unit, the bottom and opposite side edge being provided with a strip E return-bent at E′ to embrace the edge portion of the facing B and again return-bent at E^2 to form a groove or channel adapted to receive the tongue portion C^7 of an adjacent unit. The strip E is anchored by an obliquely extending portion E^3 which is embedded in the body A having an angle flange E^4 at its inner edge.

The unit constructed as above described, is secured to the supporting wall F by fasteners G which engage apertures in the flange C^2 and extend into engagement with the supporting wall or frame. These fasteners may be of any suitable construction and are not specifically illustrated. After securing one of the units to the supporting wall another unit may be placed adjacent thereto by engaging the grooved edge thereof with a projecting tongue C^7. The tongue is of slightly greater length than the depth of the groove so that when the units are engaged with each other the contact will be between the tongue and groove and not between the body portions which are slightly spaced. This insures proper alignment as the edging strips are accurately positioned. The opposite edge of the second unit is then secured in the same manner as previously described by engaging fasteners G with the projecting flange C^2. Thus, the facing may be extended both vertically and laterally by the engagement of adjacent units in the manner just described. The body portion A of each unit has a recess or rabbet H along the rear face of each grooved edge to receive the flange C^2 and to permit said unit to lie flush with the supporting wall. If desired, the joint between units is further sealed by the placing of a sealing gasket I in the groove for engaging the tongue.

My improved construction has the advantage

that the body of the unit may be comparatively thin so as not to materially increase the thickness of the building wall to which the facing is applied. This is particularly advantageous where the wall of the building is substantially on the lot line and where a thick facing could not be applied without trespass on adjacent property. A further advantage of the construction is that it can be applied more rapidly than would be the case if the units were secured in position by cement or mortar.

What I claim as my invention is:

1. A building unit comprising a body, an edging strip provided with an anchor portion embedded in said body and having a projecting flange arranged substantially in the plane of the inner face of the unit, and a fastener for engaging said flange to attach the same to the supporting wall.

2. A building unit comprising a body, a strip extending along one edge of said body provided with an anchor portion embedded in said body, said strip having a projecting flange arranged substantially in the plane of the rear face of the unit and a projecting tongue arranged adjacent to the front face of the unit, and a second separate strip extending along the opposite edge of the body having an anchor portion embedded therein, said strip being fashioned to form a groove for receiving the tongue of an adjacent unit.

3. A building unit comprising a body portion, and separate strips extending along opposite edges of said body portion each provided with an anchor portion embedded in said body, one of said strips having a projecting flange arranged substantially in the plane of the rear face of the unit, and a projecting tongue adjacent to the front face of the unit and the other of said strips being fashioned to form a groove for receiving the tongue of an adjacent unit whereby a weather-proof joint is formed between units.

4. A building unit comprising a body portion and strips extending along the edges thereof and anchored thereto, the strip on the top edge and one of the side edges of the body being fashioned to form a projecting flange substantially in the plane of the rear face of the unit and forming a securing means therefor, and a projecting tongue adjacent to the front face of the unit, the strips on the bottom and opposite side edges of the body being fashioned to form grooves for receiving the tongues of adjacent units.

5. A building unit comprising a body formed of cementitious material and strips extending along the edges of said body and provided with inwardly extending anchor portions embedded in the body, the strips on the top edge and one of the side edges of the body being fashioned to form a securing flange extending substantially in the plane of the rear face of the unit, and the projecting tongue adjacent to the front face of the unit and the strips on the bottom and opposite side edge of the body being fashioned to form grooves for receiving the projecting tongues of adjacent units and the rear face of the body on the grooved edges thereof being rabbeted to receive the tongue of the adjacent unit.

6. A building unit comprising a body portion formed of cementitious material and separate edging strips extending along the opposite edges of said body and having anchor portions embedded in the body, the strip on one edge of said body being fashioned to form a projecting tongue and the strip on the opposite edge of the body being fashioned to form a groove for receiving the tongue of an adjacent unit.

7. A building unit comprising a body portion formed of cementitious material and separate edging strips extending along the edges of said body and having anchor portions embedded in the body, the strip on one edge of said body being fashioned to form a projecting tongue and the strip on the opposite edge of the body being fashioned to form a groove for receiving the tongue of an adjacent unit, and sealing means in said groove for engaging said tongue to form a weather-proof joint therewith.

8. A building unit comprising a body portion formed of cementitious material and an edging strip comprising a portion extending from front to rear of the edge of said body having an outwardly projecting angle flange substantially in the plane of the rear face of the body, said flange being return-bent with an inwardly projecting portion forming an anchor embedded in the body, and an angle flange at the front of said strip forming a projecting tongue.

9. A building unit comprising a body portion formed of cementitious material and an edging strip comprising a portion extending from front to rear of the edge of said body having an outwardly projecting angle flange substantially in the plane of the rear face of the body, said flange being return-bent with an inwardly projecting portion forming an anchor embedded in the body, an angle flange at the front of said strip forming a projecting tongue and return-bent to form a T-head overlapping the front of the body.

10. A building unit comprising a body portion formed of cementitious material and an edging strip comprising a portion extending from front to rear of the edge of said body having an outwardly projecting angle flange substantially in the plane of the rear face of the body, said flange being return-bent with an inwardly projecting portion forming an anchor embedded in the body, an angle flange at the front of said strip forming a projecting tongue and return-bent to form a T-head overlapping the front of the body, and an ornamental facing strip embracing said T-head to be secured thereto.

11. A building unit comprising a body portion formed of cementitious material and a front facing plate therefor and an edging strip comprising a portion extending from front to rear of the edge of said body having an outwardly projecting angle flange substantially in the plane of the rear face of the body, said flange being return-bent with an inwardly projecting portion forming an anchor embedded in the body, an angle flange at the front of said strip forming a projecting tongue and return-bent to form a T-head overlapping the front of the body, and an ornamental facing strip embracing said T-head to be secured thereto, said facing strip forming a securing means for said front facing plate.

12. A building unit comprising a body portion formed of cementitious material and a front facing plate therefor and an edging strip comprising a portion extending from front to rear of the edge of said body having an outwardly projecting angle flange substantially in the plane of the rear face of the body, said flange being return-bent with an inwardly projecting portion forming an anchor embedded in the body, an angle flange at the front of said strip forming a projecting tongue and return-bent to form a T-head overlapping the front of the body, and an ornamental facing strip embracing said T-

head to be secured thereto, said facing strip having a hook-shaped flange for embracing the edge of said front facing plate to secure the same to said body.

13. A building unit comprising a body portion formed of cementitious material and a front facing plate therefor and an edging strip comprising a portion extending from front to rear of the edge of said body having an outwardly projecting angle flange substantially in the plane of the rear face of the body, said flange being return-bent with an inwardly projecting portion forming an anchor embedded in the body, an angle flange at the front of said strip forming a projecting tongue and return-bent to form a T-head overlapping the front of the body, and an ornamental facing strip having opposite return-bent flanges for embracing said T-head and also having an intermediate return-bent portion forming a hook flange for embracing the edge of said front facing plate to secure the same to said block.

14. A building unit comprising a body portion formed of cementitious material and a front facing plate therefor and an edging strip comprising a portion extending from front to rear of the edge of said body having an outwardly projecting angle flange substantially in the plane of the rear face of the body, said flange being return-bent with an inwardly projecting portion forming an anchor embedded in the body, an angle flange at the front of said strip forming a projecting tongue and return-bent to form a T-head overlapping the front of the body, and an ornamental facing strip having opposite return-bent flanges for embracing said T-head and also having an intermediate return-bent portion forming a hook flange for embracing the edge of said front facing plate to secure the same to said block, and a projecting flange from the return-bent portion engaging the T-head extending into the cementitious body and forming an additional anchor.

15. A building unit comprising a body portion formed of cementitious material and an edging strip comprising a portion extending from front to rear of the edge of said body having an outwardly projecting angle flange substantially in the plane of the rear face of the body, said flange being return-bent with an inwardly projecting portion forming an anchor embedded in the body, said anchor portion being apertured for the passage of cementitious material therethrough and having a hooked flange at its inner edge.

16. A building unit comprising a body formed of cementitious material and an edging strip therefor, said strip having at its rear edge an anchor portion embedded in said body and at its front edge a T-shaped head, one arm of said T overlapping the body and the other arm forming a projecting tongue.

17. A building unit comprising a body formed of cementitious material and an edging strip therefor, said strip having at its rear edge an anchor portion embedded in said body and at its front edge a T-shaped head, one arm of said T overlapping the body and the other arm forming a projecting tongue, and an ornamental strip embracing said T-head exposed at the front of said body.

18. A building unit comprising a body formed of cementitious material, a front facing plate therefor, an edging strip for said body having at its rear edge an anchor portion embedded in said body and at its front edge a T-shaped head, one arm of said T overlapping the body and the other arm forming a projecting tongue, and an ornamental strip embracing said T-head exposed at the front of said body, said ornamental strip having a hooked flange for embracing the edge of said front facing plate.

19. A building unit comprising a body formed of cementitious material, a front facing plate therefor, an edging strip for said body having at its rear edge an anchor portion embedded in said body and at its front edge a T-shaped head, one arm of said T overlapping the body and the other arm forming a projecting tongue, an ornamental strip embracing said T-head exposed at the front of said body, said ornamental strip having a hooked flange for embracing the edge of said front facing plate, and a strip anchored to the opposite edge of said body having a groove portion for receiving the projecting tongue of an adjacent unit and a hook flange for engaging the opposite edge of the front facing plate.

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