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CONCRETE FOUNDATION WITH SILL

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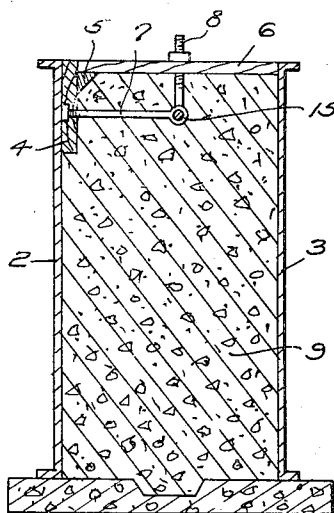


Fig. 1.

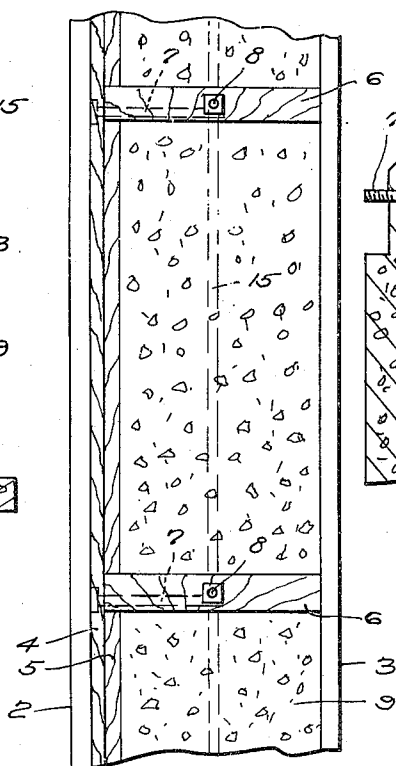


Fig. 2.

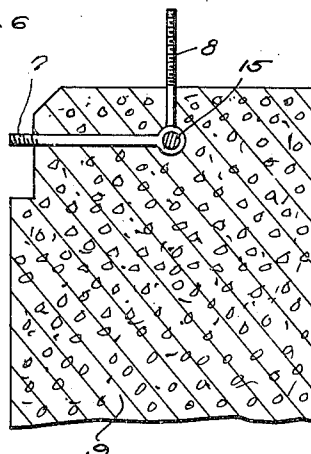


Fig. 3.

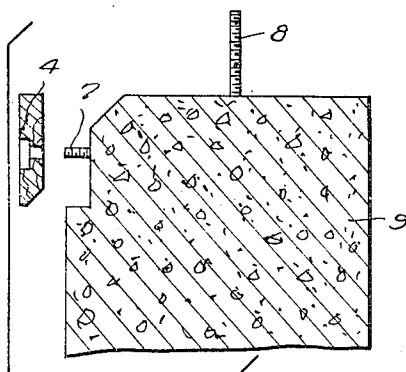


Fig. 4.

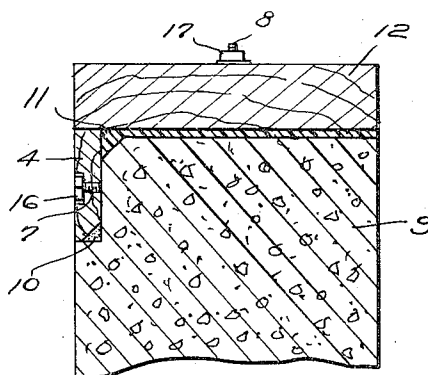


Fig. 5.

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UNITED STATES PATENT OFFICE

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CONCRETE FOUNDATION WITH SILL

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2 Claims. (Cl. 72-77)

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This invention relates to improvements in seal proof air tight mud sills for foundations.

An object of the invention is to provide an improved seal proof air tight mud sill for foundations which will provide an efficient and durable foundation construction for buildings which will provide a solid support for the building joists when secured upon the mud sill, and a seal bead to which the sheathing may be secured.

Another object of the invention is to provide an improved concrete foundation construction in which L-shaped anchoring bolts may be set at spaced intervals to extend upwardly to pass through a mud sill to hold the same on the foundation, and the forwardly extending bolts being adapted to extend through a seal bead whose corners will be sealed with corking compound or other sealing material.

Another object of the invention is to provide an improved seal proof air tight mud sill for foundations which will be highly efficient in operation, and relatively inexpensive to manufacture and produce.

Other objects will appear as the description proceeds.

In the accompanying drawings which form a part of this application,

Figure 1 is a vertical sectional view through a concrete form with temporary seal bead and mud sill secured in place while the concrete hardens and sets;

Figure 2 is a plan view looking down on the concrete form with temporary seal bead and mud sill in place;

Figure 3 is a sectional view of the foundation after the form elements have been removed;

Figure 4 is a transverse sectional view through the upper end of the concrete foundation showing the L-shaped tie bolts imbedded therein, and the seal bead ready to be placed in position, and

Figure 5 is a transverse sectional view of the completed foundation with the mud sill and seal bead secured thereto and corked with corking compound.

Like characters of reference are used throughout the following specification and the accompanying drawings to designate corresponding parts.

In carrying out the invention, there is provided an improved form of mud sill for foundations, to be formed in the following manner.

A concrete footing 1 is first laid in a trench at the desired depth below the grade level, and spaced mold form 2 and 3 will be supported upon

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the said footing 1 and secured thereto in any desired manner.

A temporary seal bead 4 will be secured to the mold form 2 about one and five-eighth inches above the grade line, and a triangular shaped chamfer strip 5 will be placed exactly on the grade line and nailed to the inner surface of the seal bead 4. After this, strips of board 6 will be disposed across the mold on the grade line between the form 3 and on top of the chamfer strip 5, to support the L-shaped anchor bolts with legs 7 and 8 which extend respectively through the seal bead 4 and the boards 6, said bolts being inter-connected by means of the steel reinforcing members 15. The concrete 9 is then poured into the mold to completely fill the same and is allowed to set and harden.

The forms 2 and 3 will be stripped off after the concrete has hardened, and also the seal bead 4 will be removed and likewise the chamfer strip 5. The lower inside edge of the seal bead 4 is ripped off on an angle (Fig. 4). The cut-off corner of the seal bead 4 is sealed with corking gum plaster cement 10, and the seal bead is replaced and tightened snugly by tightening down on the legs 7. A chalk line and straight edge are used to be sure the seal bead is level, after which the nuts 16 on the legs 7 will be further tightened to hold the seal bead in fixed position.

The cut-off corner of the foundation is filled with plastic cement 11 where the chamfer strip 5 was removed, and the cement is spread over the top of the cement foundation, after which the mud sill 12 will be placed in position thereon with the anchor bolts 8 extending therethrough. The chalk line and straight edge are again used to see that the mud sill is level, after which the nuts 17 on the legs 8 will be tightened down firmly, thus completing the foundation which will be allowed to set and harden a few hours before laying the floor joists thereon.

From the foregoing description, it will be apparent that there has been devised and provided a highly efficient form of seal proof air tight mud sill for foundations, which will be relatively simple to install, and which will be highly efficient in use.

While the preferred embodiment of the instant invention has been illustrated and described, it will be understood that it is not intended to limit the scope of the invention thereto, as many minor changes in detail of construction may be resorted to without departure from the spirit of the invention.

Having thus described my invention what I

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claim as new and desire to secure by Letters Patent of the United States is:

1. A mud sill for foundations including a cement foundation notched out at its upper outside edge, spaced L-shaped anchor bolts embedded in said cement foundation and having legs extending outwardly and upwardly therefrom, a seal bead in said notched out portion of said foundation, a mud sill on said foundation, said seal bead and mud sill being secured to the foundation by the legs of said L-shaped bolts, the inner lower corner of said seal bead being cut-off on an angle, and corking gum plaster cement disposed between said seal bead and foundation to seal said opening formed by the cutting off of the lower corner of said seal bead, and a filler of sealing cement disposed between said mud sill and the top of said cement foundation.

2. A mud sill for foundations including a cement foundation notched out at its upper outside edge, spaced L-shaped anchor bolts embedded in said cement foundation and having legs extending outwardly and upwardly therefrom, a seal bead in said notched out portion of said foundation, a mud sill on said foundation, said seal bead and mud sill being secured to the foundation by the legs of said L-shaped bolts, the inner lower

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corner of said seal bead being cut-off on an angle, corking gum plaster cement disposed between said seal bead and foundation to seal said opening formed by cutting off of the inner lower corner of said seal bead, the upper edge of said foundation being cut off at an angle between the upper surfaces thereof and the adjacent wall of said notched out portion, and a sealing filling of plastic cement disposing in said opening thus formed and spread over the upper surface of the foundation prior to placing the mud sill in position thereon.

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