July 1, 1930. J. B. HUNTINGTON 1,768,689

EXPANSION JOINT INSTALLING DEVICE

Filed July 18, 1927

Fig. 1.

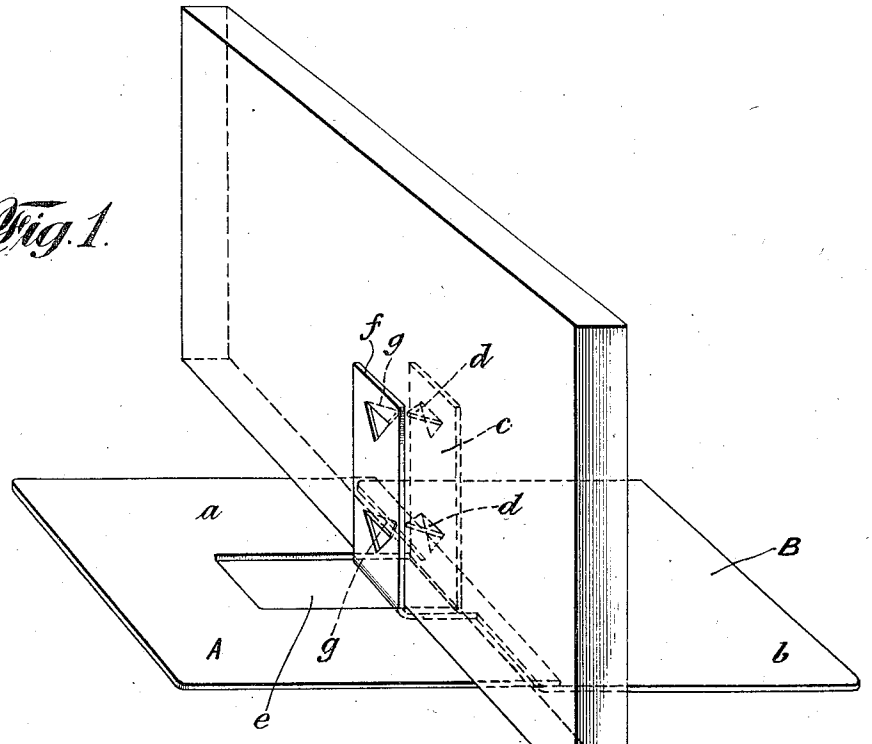


Fig. 3.

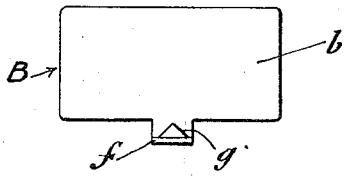


Fig. 2.

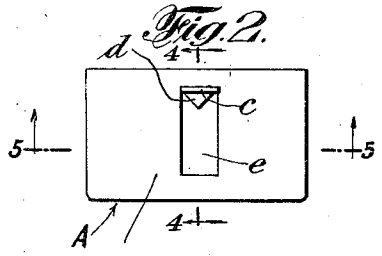


Fig. 4.

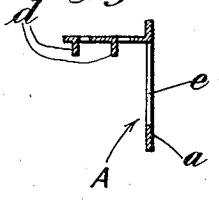
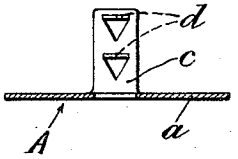


Fig. 5.



J. B. Huntington Inventor

By his Attorney

Jos. D. Smith Jr.

Patented July 1, 1930 1,768,689

UNITED STATES PATENT OFFICE

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EXPANSION-JOINT-INSTALLING DEVICE

Application filed July 18, 1927. Serial No. 206,476.

My invention relates to expansion joint installing devices and is particularly adapted for use in the installing of expansion joint in concrete pavements or similar structures where it is desirable to support the expansion joint in position while the adjacent concrete is being poured or placed in position.

My invention also serves to lock the expansion joint in place in the finished structure.

In the drawings I have shown in Fig. 1 my preferred form of expansion joint holding device. Fig. 2 shows one member of my device. Fig. 3 a companion member. Fig. 4 is a cross section of Fig. 2 on the line 4, 4 and Fig. 5 is a cross-section on the line 5, 5.

My improved installing and locking device for expansion joint is preferably composed of two members A and B, each of which is provided with a main or base plate *a* and *b* respectively. The member B is composed of a base plate *a* having a vertical upright *c* fixed to one edge thereof. This vertical upright has one or more triangular prongs *d* stamped out of the upright or otherwise affixed to it, which prongs are readily inserted into the expansion joint material and support the said joint material in a vertical position with relation to the base plate *a*. In this base plate *a* is a cut out portion or opening *e* through which a vertical portion *f* of companion member B is passed. The member B of my device is provided with a vertical upright *f* which may form an extension from the base plate *b* as shown in Fig. 3, or, may if desired project directly up from the edge of the base plate *b*. This vertical member *f* likewise has prongs *g* for the same purpose as the prongs *d* on the upright *c* heretofore described.

When in use the vertical upright *f* of the base plate *b* is passed up through the opening *e* in the plate *a* until the plates *a* and *b* are in contact, then the expansion joint as shown in Fig. 1 is placed between the uprights *c* and *f* and the prongs *d* on the upright *c* and the prongs *g* on the upright *f* are pressed or otherwise forced into the body of the expansion joint material as shown in Fig. 1 until the uprights *c* and *f* are in contact with the sides of the expansion joint on the opposite sides thereof, when as shown in Fig. 1 the joint will readily be held in a vertical position by the plates *a* and *b* on opposite sides thereof, and locked to the plate by reason of the prongs on the vertical members *c* and *f*.

The opening *e* in the base plate *a* is preferably made so that it is sufficiently long to permit the member *f* to be moved back away from the member *c* to permit the placing of the expansion joint material between the vertical members *c* and *d*, and then the vertical member *f* is moved forward until the expansion joint material is held in close contact with the two vertical members *c* and *f*.

It will be seen that by my improved device, expansion joint material of any thickness may be held in position, the limitation to the thickness being dependent merely upon the length of the opening *e* in the plate *a*. In practice when the expansion joint material has been arranged in the installing and locking device as shown in Fig. 1, the concrete is poured on one or both sides and as the concrete covers the base plates *a* and *b* the expansion joint material is locked between adjacent portions of the structure by reason of the prongs *d* and *g* on the vertical uprights *c* and *f* respectively.

Claims:

1. An expansion joint installing device consisting of a pair of plates, vertical members for each of said plates forming supports for opposite sides of an expansion joint filler so arranged that each of the vertical members are supported by a plate on the opposite side of a filler being installed.

2. An expansion joint installing device consisting of a pair of plates, vertical members for each of said plates forming supports for opposite sides of an expansion joint filler so arranged that each of the vertical members are supported by a plate on the opposite side of a filler being installed, said vertical members provided with means adapted to engage with expansion joint filler material.

3. In an expansion joint installing device a plate provided with an opening, a member arranged at an angle thereto, a companion

plate, a member fixed to said companion plate passing through the opening in said first mentioned plate and forming with the member on said first mentioned plate, a support for expansion joint filler material.

4. In an expansion joint installing device a plate, a member arranged at an angle thereto provided with an opening, a companion plate, a member fixed to said companion plate passing through the opening in said first mentioned plate and forming with the member on said first mentioned plate, a support for expansion joint filler material, said members having means adapted to engage with expansion joint material.

5. In a concrete construction composed of concrete portions separated by expansion joint material, means anchoring said expansion joint in place consisting of plates held in position by adjacent portions of the concrete structure, each of said plates provided with a vertical member in contact with the expansion joint material on that side of the expansion joint material opposite the side that is in contact with the concrete that is holding the plate provided with said last mentioned member, one of said members having means engaging with and locking the expansion joint material in place.

6. In a concrete construction an expansion joint material, means anchoring said expansion joint in place consisting of plates, each provided with vertical members, the vertical member of each plate contacting with one side of an expansion joint and the plate of each member extending below the expansion joint and held in place by the concrete that contacts with the expansion joint material on the opposite side of the expansion joint material, one of said vertical members having means engaging with and locking the expansion joint material in place.

In testimony whereof, I have signed my name to this specification.

J. B. HUNTINGTON.