July 1, 1930. J. B. HUNTINGTON 1,768,690

EXPANSION JOINT INSTALLING DEVICE

Filed July 19, 1927

Fig. 1.

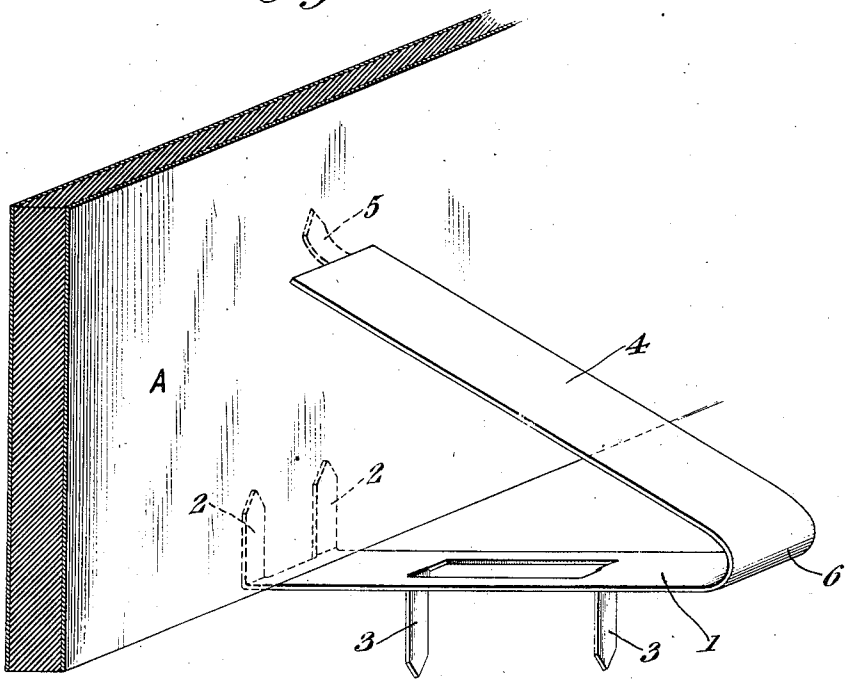
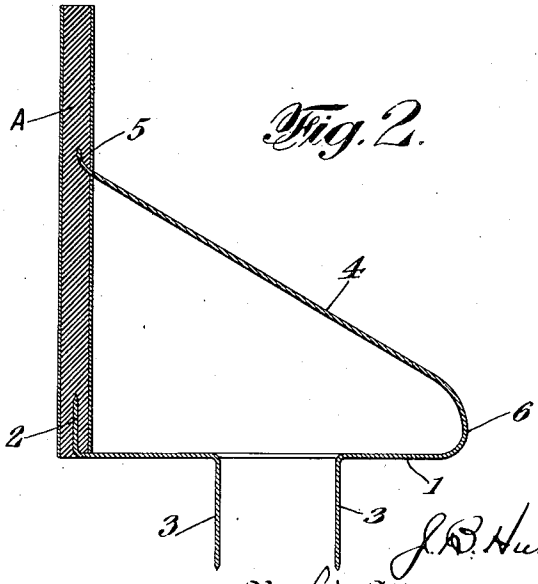


Fig. 2.



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UNITED STATES PATENT OFFICE

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EXPANSION-JOINT-INSTALLING DEVICE

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My invention relates to expansion joint installing devices. It is addressed to providing a device for holding expansion joint fillers in vertical position while the adjacent concrete or other material is being placed in position.

In the drawings, Fig. 1 is a perspective view of my installing device supporting a piece of expansion joint. Fig. 2 is a cross section through the installing device and the joint filler shown in Fig. 1.

In the drawings in which like characters relate to like parts, A is an expansion joint which may be of any type but I have shown a well known form of expansion joint in which there is a body of plastic bituminous material between two layers of saturated felt and have shown my expansion joint filler holder adapted for this character of joint.

My holder is composed of a metal plate which is bent at 6 to form the platform 1, and an upwardly extending angular support 4. This plate is preferably of an elastic character made from steel so that the member 4 will return to its normal position when pressed down in the direction of the platform 1. At the free end of the platform 1, I provide upwardly extending prongs 2, 2 which are formed by cutting the end of the plate as shown and bending the prongs vertical to the platform 1. These prongs are provided with pointed ends which may be readily driven into the expansion joint filler. At a suitable point intermediate the ends of the platform 1, I cut the metal so as to form two prongs 3, 3 provided with points similar to the prongs 2 but extending in the opposite direction from the platform 1 so that the prongs 3 may be pressed down into the ground or whatever forms the foundation upon which the road surface is being built. At the upper or free end of the support 4, I provide a similar prong 5 which extends outward from the end of the support 4 and curves upward or in a direction away from the platform 1. As will be seen from the drawings, my expansion joint filler device may be readily attached to an expansion joint by forcing the prongs 2, 2 into one edge of the joint filler and then compressing the supporting member 4 and pressing the prong 5 into the side of the expansion joint. By reason of the tendency of the member 4 to return to its normal position, it will readily engage and hold the prong 5 in position in the side of the expansion joint. The installing device may be first placed in fixed relation to the edge and side of the expansion joint or the prongs 3 may be forced into the ground and then the joint filler placed on the installing device. The workman in installing expansion joint will, by use of my improved device, be able to quickly place a joint in vertical position, pressing the prongs 3 into the ground by merely putting his foot on the plate 1 either before or after the joint has been attached to the installing device.

These installing devices are cheaply and rapidly made from a piece of sheet metal by stamping without waste of any material as the prongs 2, 2 can be arranged of equal width or any desirable width, the prong 5 being formed from the material between the prongs 2, 2 of the adjacent installing device in the process of manufacture.

Claims:

1. An expansion joint filler installing device consisting of a flexible metal strip bent to form a base plate and a supporting member and means at the opposite ends of said strip adapted to be inserted into an expansion joint filler to support same in vertical position, and means in said base plate adapted to hold said installing device in fixed position with relation to the foundation upon which the expansion joint filler rests.

2. An expansion joint filler installing device composed of a base plate provided with means engaging with an edge of expansion joint material intermediate the side surfaces thereof for supporting said expansion joint material in position.

3. An expansion joint filler installing device composed of a base plate provided with means for engaging with an edge of expansion joint material intermediate the side surfaces thereof for supporting said expansion joint material in position and means for anchoring said base plate against movement parallel to the surface on which it is placed.

4. An expansion joint filler installing device composed of a base plate provided with means for engaging with an edge of expansion joint material intermediate the side surfaces thereof for supporting said expansion joint material in position and a member flexibly attached to said base provided with means for engaging with the expansion joint on one of the side surfaces thereof.

5. An expansion joint filler installing device composed of a base plate provided with means for engaging with an edge of expansion joint material intermediate the side surfaces thereof for supporting said expansion joint material in position, means for anchoring said base plate against movement parallel to the surface on which it is placed, and a member flexibly attached to said base provided with means for engaging with a side of the expansion joint.

6. An expansion joint filler installing device consisting of a base plate, means for supporting expansion joint filler at the desired angle with respect to said base plate, said base plate provided with means anchoring it against movement parallel to the foundation on which the base plate is fixed.

7. An expansion joint installing device consisting of a base plate member and a supporting member, said device formed by bending a flexible metal strip to form said two members, means at the free ends of said two members to be inserted into and engage with an expansion joint filler.

8. In a construction an expansion joint formed of a plastic material, a supporting device for said joint composed of a base plate, means on said base plate inserted into and engaging with the expansion joint, a member supported by said base plate having at its end opposite the base plate means inserted into and engaging with the expansion joint at a point along the vertical side thereof.

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

J. B. HUNTINGTON.