

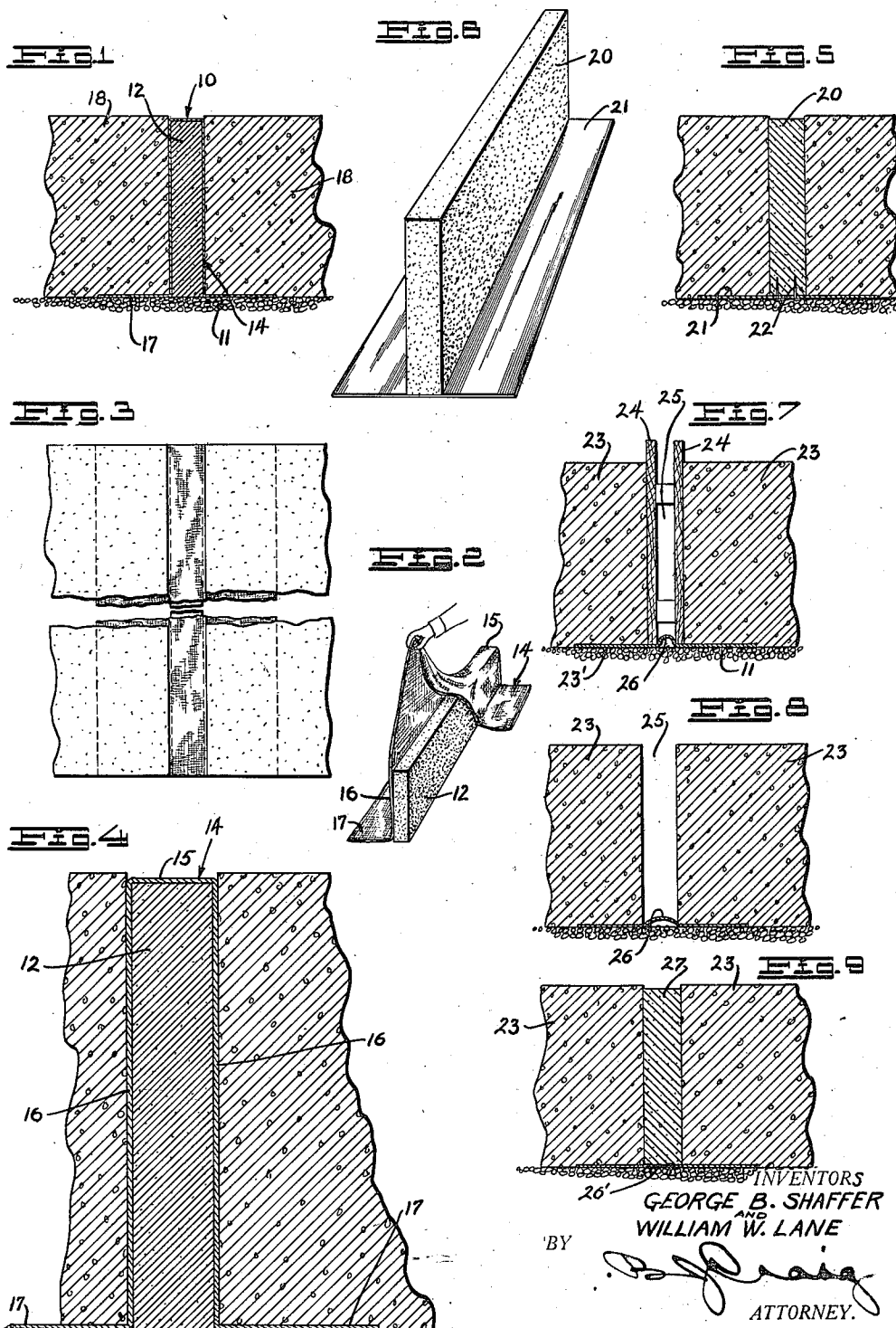
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G. B. SHAFFER ET AL

PAVING CONSTRUCTION

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GEORGE B. SHAFFER AND WILLIAM W. LANE, OF PHOENIX, ARIZONA.

PAVING CONSTRUCTION.

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This invention relates to paving construction.

The general object of the invention is to provide an improved joint for use in concrete work.

One of the specific objects of the invention is to provide means for preventing concrete from getting under expansion joints which are arranged at the ends of the sections of concrete.

Another object of the invention is to provide a skirted expansion joint which will prevent concrete from getting under the joint.

A further object of the invention is to provide a skirt in connection with preformed expansion joints wherein the skirt is folded over the joint and lapped over the sides thereof onto the base to prevent concrete from getting beneath the joint.

Other objects of the invention will be apparent from the following description taken in connection with the accompanying drawings wherein:

Fig. 1 is a sectional view through a joint showing the application of our invention thereto;

Fig. 2 is a perspective view showing the manner in which our skirt is applied to the joint;

Fig. 3 is a fragmentary plan view partly broken away showing the joint;

Fig. 4 is a view similar to Fig. 1 on an enlarged scale;

Fig. 5 is a view similar to Fig. 1 showing a modification of the invention;

Fig. 6 is a perspective view of the modification shown in Fig. 5; and

Figs. 7, 8 and 9 are cross sectional views showing a further modification.

Referring to the drawing by reference characters we have shown our invention generally at 10. The invention is here shown as embodied in a concrete road construction although it will be understood that the invention is not limited to such use.

Referring again to the drawing we show a base or foundation at 11. An expansion joint is shown at 12. This expansion joint may be of any suitable character and may be one which is manufactured ready for insertion or as will be later described, the joint may be one which is arranged in position after the roadway or other structure is completed.

In using our invention the expansion joint

12 is first arranged in its proper position after which a skirt 14 embodying the features of our invention is draped over the joint 12. This skirt may be made of fabric, flexible paper, or metal or of any other material and may be fashioned in any desired manner. The skirt as shown in Figs. 1 to 4 inclusive is of sufficient length so that it will fit over the joint to provide a top 15 and sides 16 with a portion 17 of sufficient length so that it will extend some distance along the foundation or base 11.

The skirt 14 may be merely laid over the expansion joint or it may be cemented or otherwise secured thereto and may be shipped from the factory with the joint as a unit if desired. After the joints have been positioned with the part 17 of the skirt 11, the concrete is poured in the usual manner so that the concrete as shown at 18 will fit over the parts 17 of the skirt and thereby hold the joint in proper position. The concrete is then worked to the proper surface.

With our invention there is no likelihood of concrete working beneath the joint 12. In road work and in other places where expansion joints have been used it has been a great source of annoyance and expense that green concrete would work beneath the joint and thus impair the efficiency of the joint. With our invention the concrete engages the part 17 and the part 16 so that it does not get beneath the joint thus allowing the full efficiency of the joint to be utilized and also assuring that the joint will be properly positioned.

Instead of employing a skirt which is folded over a precast block, we may provide a precast block 20 as shown in Figs. 5 and 6 with a member 21 here shown as a metal member secured to the bottom of the precast joint by means of fastening members shown at 22. The use of this skirt and joint is the same as that previously described. The fastening members 22 hold the skirt 21 in tight engagement with the lower face of the joint 20 and prevent the concrete from working thereunder.

In Figs. 7, 8 and 9 we show our invention as applied to joints wherein the expansion joint is arranged in place after the concrete has been poured. In this case the concrete 23 is poured against form members 24 shown as spaced by blocks 25, although any other means may be used which will

provide an opening between the ends of the concrete 23. After the members 24 and 24 are removed an opening 25 is provided as shown in Fig. 8.

5 Before the concrete is applied and before the members 24 are placed we arrange a skirt 23' upon the foundation or base 11. This skirt 23' is engaged by the lower portion of the forms 24 and in order to prevent
10 tearing of the member 23' a surplus of material is provided as at 26. This surplus is flattened down as shown at 26' in Fig. 9 when the expansion joint 27 is poured or
15 otherwise inserted in place. In this case as well as in the other cases previously described, the skirt prevents the concrete from working under the joint so that the full efficiency of the joint is secured and this joint is held in proper position.

20 From the foregoing description it will be apparent that we have provided an improved paving construction wherein a skirt is used for preventing concrete from getting beneath the expansion joint.

25 Our invention is extremely simple and the cost thereof is slight. With our construction a very superior product is obtained and one in which the full efficiency of the expansion joint may be utilized.

30 Having thus described our invention, we claim:

1. In an expansion joint for concrete com-

prising a stiff expansion member, a foundation, a flexible skirt projecting from the lower portion of the expansion member, said skirt engaging the foundation and concrete
35 arranged upon the foundation and engaging a portion of the skirt which is on the foundation.

2. An expansion joint for concrete comprising a stiff expansion member, a foundation, a skirt fitted over the top of the expansion member and extending along the sides thereof and having its ends arranged
40 upon the foundation, and concrete engaging the part of the skirt which is against the foundation and against the expansion member.
45

3. In the art of using concrete, the method of making an expansion joint which
50 comprises taking a pre-cast expansion member, arranging a flexible skirt over the top and side of the expansion member, placing the joint on a foundation, arranging the ends of the skirt on the foundation and at
55 the sides of the joint and substantially parallel with the bottom of the pre-cast joint and thereafter pouring concrete over the skirt.

In testimony whereof, we hereunto affix
60 our signatures.

GEORGE B. SHAFFER.
WILLIAM W. LANE.