April 30, 1935. C. E. SIEGFRIED 1,999,791

CRADLE BASE FOR CONDUITS

Filed Feb. 21, 1930

Fig.1.

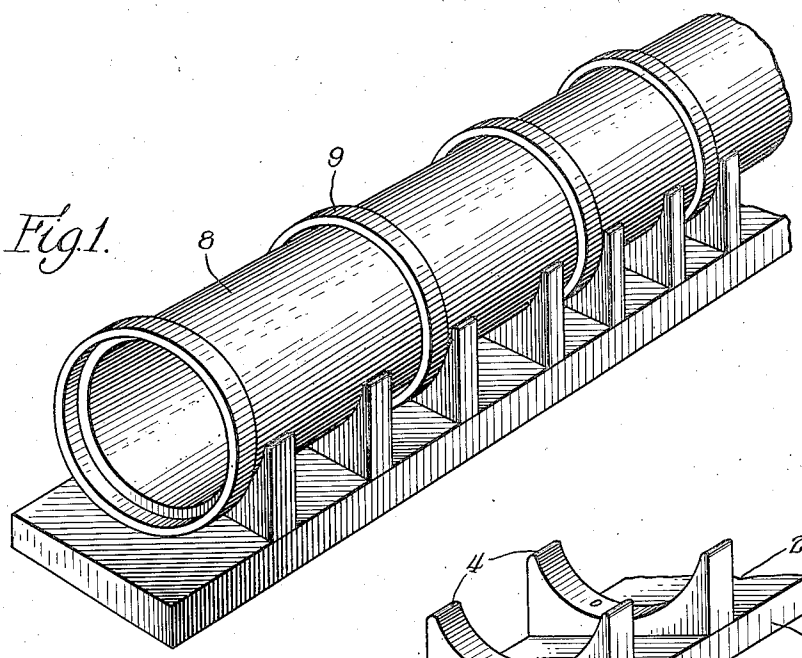


Fig.2.

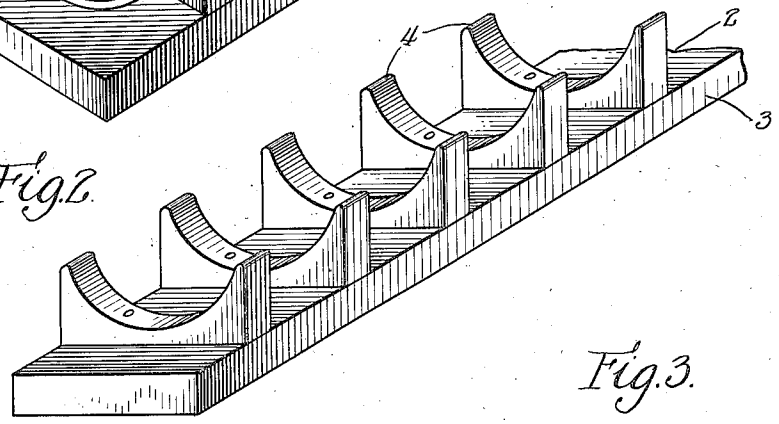


Fig.3.

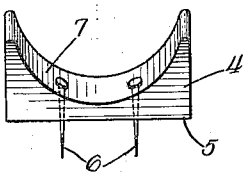
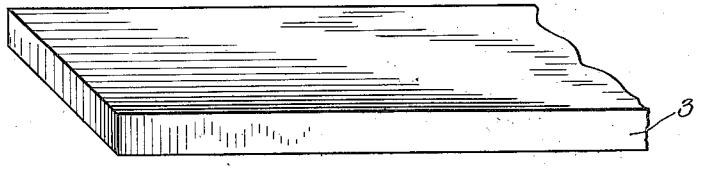


Fig.4.



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UNITED STATES PATENT OFFICE

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CRADLE BASE FOR CONDUITS

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Application February 21, 1930, Serial No. 430,270

6 Claims. (Cl. 137—75)

This invention relates to a novel and improved cradle base for conduits, and particularly pertains to cradle bases which are formed of compositions of a character not affected by street acids or other deteriorating causes.

Heretofore cradle bases have been constructed of baked clay, stone, concrete or the like in the form of tilings which are preferably hollowed to decrease their weight. As most sewer conduits, drain pipes or the like, are composed of tubular sections, each flared at one end to provide a bell shaped flange for receiving the non-flanged end of a similar section, it is necessary to provide transverse depressions in the cradle sections for receiving the flanges. Furthermore, the cradle sections must be specially made for the particular conduit with which it is to be used. Otherwise the transverse depressions are not properly spaced longitudinally to correspond with the spacing of the annular flanges on the conduit.

The present invention relates to a cradle base comprising a series of sections adapted to be laid end to end, and having means thereon adapted to receive and support a conduit. The supporting means on the sections may be in the form of spaced ribs, preferably detachable from the base of the sections. These may be attached to and properly spaced on the base at the time of manufacture, or they may be shipped as separate units and attached to the base when the sections are used.

In the drawing:—

Figure 1 is a perspective view of a conduit supported on a cradle base embodying the present invention;

Figure 2 is a perspective view of the cradle base with the conduit removed;

Figure 3 is a view of one of the supporting ribs employed on the base plate; and

Figure 4 is a view of the base plate.

Referring to the drawing, numeral 2 designates a cradle base comprising a base plate 3, and a series of supporting ribs 4. Both the base plate and ribs are preferably molded from a composition mass including a bituminous or asphaltic binder, fiber and earthy material. These elements of the composition may be combined in varying proportions, but it is preferable to have the bituminous or asphaltic binder predominate. The fiber provides a suitable bond for reenforcing the binder and gives it a more rigid character. The earthy material is more in the nature of a filler, and gives density and hardness to the mass. A suitable composition may be obtained from a mixture comprising about sixty-five per cent (65%) blown asphalt, twenty-five per cent (25%) fiber, and ten per cent (10%) earthy material.

The supporting ribs are squared on one edge 5 so they may be securely and evenly supported on the base plate and secured by nails 6. The opposite edge of the ribs is concaved at 7, preferably of a contour to correspond to the circumference of conduit sections 8. In order to contact flanges 9 on the conduit sections with the base plate, the thickness of the rib at neck 10 may be such as to correspond with the extent of the flange.

The invention is not limited to the particulars detailed in the description and drawing, and it will be understood that various changes may be made without departing from the spirit of same.

I claim:

1. A cradle base of bituminous composition for supporting conduits comprising a base plate of substantial length, and a series of bituminous supporting ribs detachably secured at selected intervals to the face of the plate, said ribs being concaved on the conduit receiving edges.

2. A cradle base of bituminous composition for supporting conduits comprising a base plate, a series of bituminous supporting ribs adapted to be attached to said plate, and securing means for attaching the ribs on the plate.

3. A cradle base of bituminous composition for supporting flange conduits comprising a base plate, a series of bituminous supporting ribs adapted to be attached to said plate, each of which are concaved on the conduit receiving edge, and nailing means for attaching the ribs to the base plate.

4. In combination a conduit and a cradle base on which the conduit is supported, said cradle base comprising a fibrated bituminous base plate of substantial length, and a series of bituminous supporting ribs concaved on the conduit receiving edges and detachably secured at selected intervals on the face of the base plate.

5. In combination a conduit of flanged sections and a cradle base on which the conduit is supported, said cradle base comprising a base plate of fibrated bituminous composition, and a series of detachable supporting ribs concaved to receive the flanged sections and support same with the flanged heads in contact with the base plate, said supporting ribs also being of fibrated bituminous composition.

6. In combination a conduit of flanged sections and a cradle base on which the conduit is supported, said cradle base comprising a base plate of fibrated bituminous composition, and a series of detachable supporting ribs concaved to receive the flanged sections and support same with the flanged heads in contact with the base plate, said supporting ribs also being of fibrated bituminous composition.

CLARENCE E. SIEGFRIED.