March 17, 1931. C. WRIGHT 1,796,973

PAVING BLOCK

Original Filed Nov. 12, 1924

FIG. 1.

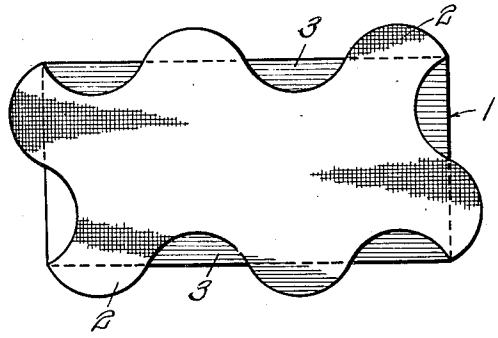


FIG. 2.

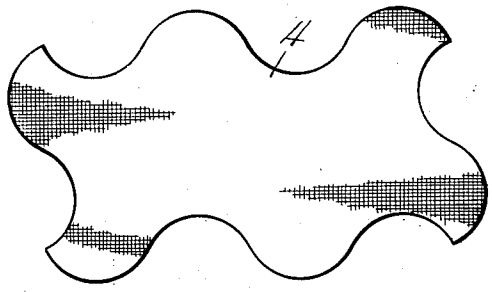


FIG. 3.

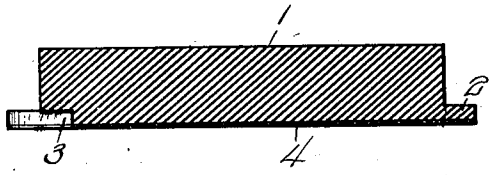


FIG. 4.

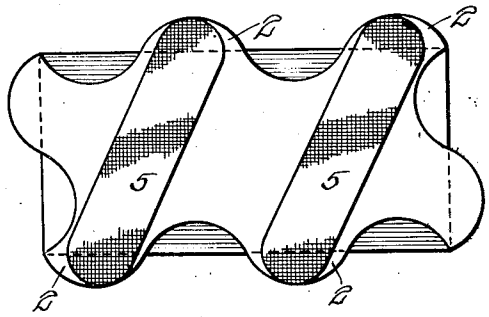


FIG. 6.

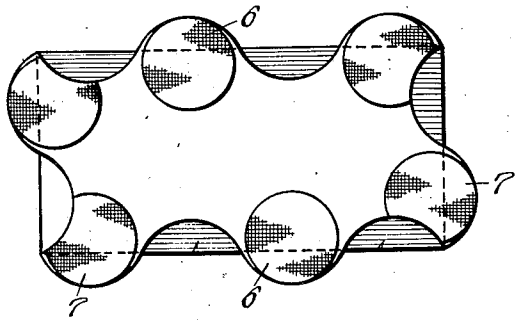


FIG. 5.

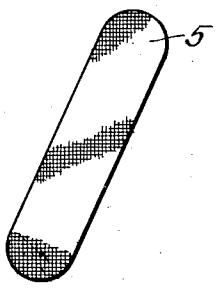


FIG. 7.

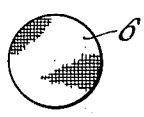




FIG. 8

INVENTOR,
CLARENCE WRIGHT

BY Edwin B. H. Tower Jr. ATTY.

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UNITED STATES PATENT OFFICE

CLARENCE WRIGHT, OF RACINE, WISCONSIN, ASSIGNOR TO WRIGHT RUBBER PRODUCTS COMPANY, OF RACINE, WISCONSIN, A CORPORATION OF WISCONSIN

PAVING BLOCK

Application filed November 12, 1924, Serial No. 749,450. Renewed March 3, 1930.

The invention relates to paving or covering blocks.

The paving or covering blocks to which the invention applies in particular have flanges at the bases thereof to interlock the same.

An object of the invention is to provide a paving block which will be strong and durable.

Another object is to provide a paving block having flanges which are firm and strong.

The block is ordinarily made of resilient substance, for instance, rubber or other suitable material, and molded or pressed into shape.

According to the invention, the flanges of the block have reinforcements of cloth or wire fabric or other suitable substance applied thereto or embedded therein to make them strong and firm.

The block is used for paving roads, streets and walks, covering floors and walls, and various other purposes.

It is particularly suitable for pavements for vehicles as it is very durable and will stand heavy strains.

Blocks embodying the invention are shown in the accompanying drawings in which the views are as follows:

Fig. 1 is a bottom plan view of a block having a reinforcement substantially coextensive with the base thereof.

Fig. 2 is a plan of the reinforcement shown in Fig. 1.

Fig. 3 is a longitudinal section through the block shown in Fig. 1.

Fig. 4 is a bottom plan view of a block having reinforcing strips applied to the base thereof.

Fig. 5 is a plan of a reinforcing strip.

Fig. 6 is a bottom plan view of a block having another form of reinforcement applied to the base thereof.

Figs. 7 and 8 are plan views of the reinforcements shown in Fig. 6.

The invention is shown embodied in a paving block of the form disclosed in the patent to Healy, Reissue No. 16,867 of February 7, 1928, but it may also be incorporated in other forms of paving blocks.

The block has a top 1 of rectangular or other suitable shape and a bottom which is provided with flanges 2 projecting from the block and recesses 3 underneath the top.

These flanges and recesses correspond in shape and size and are arranged contiguously or side by side with the edges thereof merging into each other.

The top and bottom have vertical edges and the flanges and recesses have flat tops.

The flanges have embedded therein, or otherwise applied thereto, a reinforcement of cloth or wire fabric or other suitable substance to make them firm and strong so that they will stand the strain and stress imposed thereon.

The reinforcement extends from the flange into the body of the block.

The block shown in Figs. 1 and 3 has a reinforcement 4 which is substantially coextensive with and of the same configuration as the bottom of the block.

The block shown in Fig. 4 has a reinforcement of diagonal strips 5 united to the bottom thereof and reinforcing the flanges 2 on the sides of the block.

The block shown in Fig. 6 has a reinforcement of discs 6 and 7 united to the bottom thereof and reinforcing the flanges 2.

The flanges are provided with flat tops and accordingly they will positively interlock the block vertically in alinement with its adjoining blocks and not tend to separate the block from the adjoining blocks, and accordingly they are adapted to have nails or other fastening means passed therethrough to hold the block in place.

When blocks such as have been disclosed are in a pavement or other covering and adjoin each other, they are mutually interlocked by the flanges and thereby kept from relative vertical and sidewise displacement.

The flanges on each block are overlapped by the adjoining blocks and set in the recesses thereof.

The blocks may be fastened to their support or foundation by nails or other means passing through holes in the flanges thereof, and thereby kept from warping and creeping.

In addition to strengthening and stiffening

the flanges, the reinforcements provide a firm bearing for the nails or other fasteners employed for securing the paving block in place and assist materially in transferring traction strains to the support or foundation.

The invention herein set forth is susceptible of various modifications and adaptations without departing from the scope thereof as hereafter claimed.

The invention is hereby claimed as follows:—

1. A paving or covering block comprising a top having vertical edges, a bottom having vertical edges and shaped to form entirely around said block alternate flat top flanges and recesses to interlock said block vertically and laterally in both directions to its adjoining blocks, and means applied to said flanges and said bottom to reinforce and strengthen said flanges.

2. A paving or covering block comprising a polygonal top having vertical edges, a bottom having vertical edges and shaped to form entirely around said block flat top flanges extending beyond said top and complementary intervening recesses extending underneath said top, and means applied to said flanges and said bottom to reinforce and strengthen said flanges.

3. A paving or covering block comprising a rectilinear top having vertical edges, a bottom having vertical edges and shaped to form on each side of said top a flat top flange and a complementary recess to interlock said block vertically and laterally in both directions to its adjoining blocks, and means applied to said flanges and said bottom to reinforce and strengthen said flanges.

4. A resilient paving or covering block comprising a polygonal top having vertical edges, a bottom having vertical edges and shaped to form entirely around said block flat top flanges extending beyond said top and complementary intervening recesses extending underneath said top, and means applied to said flanges and said bottom to reinforce and strengthen said flanges.

5. A resilient paving or covering block comprising a rectilinear top having vertical edges, a bottom having vertical edges and shaped to form on each side of said top a flat top flange and a complementary recess to interlock said block vertically and laterally in both directions to its adjoining blocks, and means applied to said flanges and said bottom to reinforce and strengthen said flanges.

6. A paving or covering block comprising a top having vertical edges, a bottom having vertical edges and shaped to form on each side of the top a flat top flange extending beyond the top and a recess extending underneath the top and shaped to receive the flat top flange of a corresponding adjoining block, and means applied to said flanges and said bottom to reinforce and strengthen said flanges.

7. A paving or covering block comprising a top having vertical edges, a bottom having vertical edges and shaped to provide on each side of the top a flat top flange and recess arranged in horizontal alinement and having the edges thereof merging into each other, and means applied to said flanges and said bottom to reinforce and strengthen said flanges.

8. A paving or covering block comprising a top having vertical edges, a bottom having an ogee vertical edge on each side of the top to provide a flat top flange extending beyond the top and a complementary recess extending underneath the top and shaped to receive the flat top flange of a corresponding adjoining block, and means applied to said flanges and said bottom to reinforce and strengthen said flanges.

9. A paving or covering block comprising a top having vertical edges, a bottom having vertical edges and shaped to form entirely around said block alternate flat top flanges and recesses to interlock said block vertically and laterally in both directions to its adjoining blocks, and a fabric reinforcement applied to said flanges and said bottom to reinforce and strengthen said flanges.

10. A paving or covering block comprising a polygonal top having vertical edges, a bottom having vertical edges and shaped to form entirely around said block flat top flanges extending beyond said top and complementary intervening recesses extending underneath said top, and a fabric reinforcement applied to said flanges and said bottom to reinforce and strengthen said flanges.

11. A paving or covering block comprising a restilinear top having vertical edges, a bottom having vertical edges and shaped to form on each side of said top a flat top flange and a complementary recess to interlock said block vertically and laterally in both directions to its adjoining blocks, and a fabric reinforcement applied to said flanges and said bottom to reinforce and strengthen said flanges.

12. A resilient paving or covering block comprising a polygonal top having vertical edges, a bottom having vertical edges and shaped to form entirely around said block flat top flanges extending beyond said top and complementary intervening recesses extending underneath said top, and a fabric reinforcement applied to said flanges and said bottom to reinforce and strengthen said flanges.

13. A resilient paving or covering block comprising a rectilinear top having vertical edges, a bottom having vertical edges and shaped to form on each side of said top a flat top flange and a complementary recess to interlock said block vertically and laterally

in both directions to its adjoining blocks, and a fabric reinforcement applied to said flanges and said bottom to reinforce and strengthen said flanges.

14. A paving or covering block comprising a top having vertical edges, a bottom having vertical edges and shaped to form on each side of said block a flat top flange extending beyond said top and a recess extending underneath said top and shaped to receive the flat top flange of a corresponding adjoining block, and a fabric reinforcement applied to said flanges and said bottom to reinforce and strengthen said flanges.

15. A paving or covering block comprising a top having vertical edges, a bottom having vertical edges and shaped to provide on each side of said block a flat top flange and recess arranged in horizontal alinement and having the edges thereof merging into each other, and a fabric reinforcement applied to said flanges and said bottom to reinforce and strengthen said flanges.

16. A paving or covering block comprising a top having vertical edges, a bottom having an ogee vertical edge on each side of said lock to provide a flat top flange extending beyond said top and a complementary recess extending underneath said top and shaped to receive the flat top flange of a corresponding adjoining block, and a fabric reinforcement applied to said flanges and said bottom to reinforce and strengthen said flanges.

17. A paving or covering block comprising a top having a bottom shaped to provide said block with a flange extending beyond said top to interlock said block with a similar adjoining block, and means extending between said flange and said block to strengthen and reinforce said flange.

18. A paving or covering block comprising a top having a bottom shaped to provide said block with flanges extending beyond said top to interlock said block with similar adjoining blocks and recesses extending underneath said top to receive flanges upon said adjoining blocks, and means to reinforce and strengthen said flanges.

19. A paving or covering block comprising a top having a bottom shaped to provide said block with flanges extending beyond said top to interlock said block with similar adjoining blocks and recesses extending underneath said top to receive the flanges upon said adjoining blocks, and a reinforcement extending between said flanges and said block to strengthen and reinforce said flanges.

20. A paving or covering block comprising a rectilinear top having a bottom shaped to form flanges and recesses to interlock said block vertically and laterally in both directions to similar adjoining blocks, and a reinforcement extending between said flanges and said block to strengthen and reinforce said flanges.

In witness whereof, I have hereunto subscribed my name.

CLARENCE WRIGHT.