P. P. McMENAMIN.

INTERLOCKING ARMORED PAVING.

APPLICATION FILED AUG. 3, 1910.

992,574. **Patented May 16, 1911.**

Fig. 1.

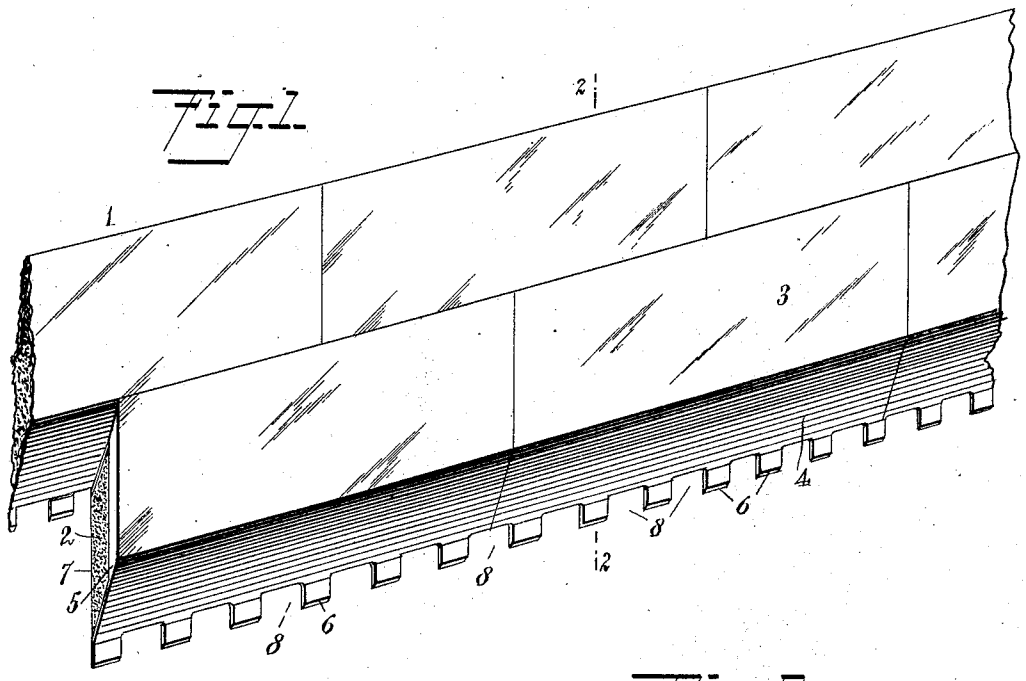


Fig. 2.

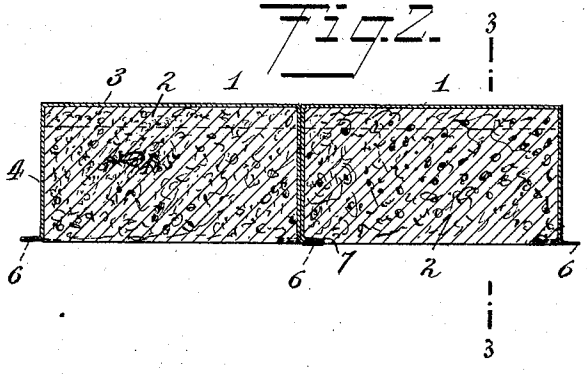
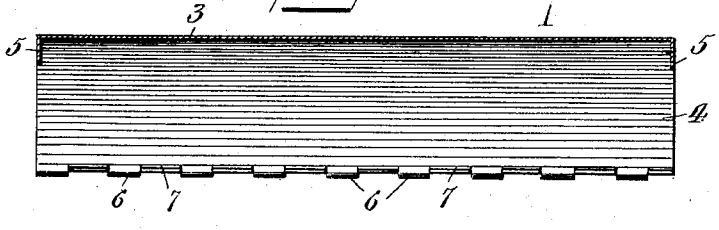


Fig. 3.



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INTERLOCKING ARMORED PAVING.

992,574. Specification of Letters Patent. Patented May 16, 1911.

Application filed August 3, 1910. Serial No. 575,256.

To all whom it may concern:

Be it known that I, PETER P. McMENAMIN, a citizen of the United States, and a resident of Jersey City, in the county of Hudson and State of New Jersey, have invented a new and Improved Interlocking Armored Paving, of which the following is a full, clear, and exact description.

This invention relates to armored paving of a type adapted to be laid in a street where it is desired to have the most wear and the smoothest exposed surface.

An object of this invention is to provide a paving block which is formed with interlocking projections adapted to prevent endwise relative movement of the blocks, and also adapted to prevent vertical relative movement of the blocks.

A further object of this invention is to provide a paving block comprising a sheet metal sheath or armor stamped from a single sheet of metal and filled with a suitable cementitious body, such as concrete.

These and further objects, together with the construction and combination of parts, will be more fully described hereinafter and particularly set forth in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views, and in which—

Figure 1 is a perspective view, showing a strip of paving formed of my improved blocks; Fig. 2 is a vertical section on the line 2—2 of Fig. 1; and Fig. 3 is a vertical section on the line 3—3 of Fig. 2, with the cementitious filling of the block left out.

Referring more particularly to the separate parts of the device, it will be seen that each block consists of an armor covering 1 and a filling 2. The armor covering 1 is preferably formed from a single sheet of metal and stamped up into form so as to provide a top 3, sides 4, and ends 5. It will be noted that it is not necessary to have the ends 5 extend the full depth of the block, and they are extended a slight fraction of the distance downward so as to form perfect joints between the juxtaposed ends of adjacent blocks.

The sides and ends preferably extend exactly at right-angles to the top 3, so as to form rectangular blocks. The lower edges of the blocks extend somewhat beyond the filling 2, and are cut into tabs 6 and 7. The tabs 7 are bent at an angle to the sides 4 and extend inwardly to form retaining members which lock the filling 2 in place within the receptacle formed by the stamped-up armor covering 1. This forms spaces 8 between the tabs 6, which are bent outwardly at angles to the sides 4 to form locking members, which are adapted to engage between the corresponding spaces 8 formed between the tabs 6 on the adjacent paving blocks. It will thus be seen that the tabs 6 prevent edgewise movement of the juxtaposed blocks, and also, because of their angular relation with the sides, prevent any single block from moving up or down relative to the adjacent blocks. The tabs 6 need not be at exact right-angles to the sides 4, but may be bent downward slightly, to permit the more ready insertion of the blocks when assembling them to form a pavement.

The filling 2 may be of any suitable cementitious character, sufficient to give body and strength to the paving blocks, such as concrete. The utility of these paving blocks will be readily seen from the above description. The blocks are preferably laid side by side, with the joints staggered as illustrated in Fig. 1, so as to form an even, smooth pavement, which, on account of the tough nature of the sheet metal forming an armor for the cementitious filling, will be exceedingly durable. The serrated lower edges of the sides formed by the upwardly-bent tabs 6, prevent endwise movement of the blocks, as well as vertical movement of the blocks. The intermediate tabs 7 prevent the cementitious filling from falling out, so that the blocks can be readily removed in case it is desired to repair the street, and just as readily re-inserted, without any great cost and without any detriment to the blocks themselves.

While I have shown one embodiment of my invention, I do not wish to be limited to the specific details thereof, but desire to be protected in various changes, modifications and alterations which may come within the scope of the appended claims.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:—

1. A paving block, comprising a cementitious filling and an armored covering, said armored covering comprising a single sheet of metal stamped up to form a top, sides and ends, said sides having incisions in the lower

edges thereof, forming tabs, each alternate tab being bent inwardly to form retaining members adapted to maintain said filling within said covering, and the remainder of said tabs being bent outwardly to form interlocking members which dovetail with the corresponding members on the juxtaposed blocks so as to prevent longitudinal and vertical movement of said block relative to adjacent blocks.

2. A paving block, comprising a cementitious filling and an armored covering, said armored covering comprising a single sheet of metal stamped up to form a top, sides and ends, said sides extending beyond the bottom of said cementitious filling and being provided in the extended portion with an incision, forming tabs, some of said tabs being bent inwardly to underlie said filling and retain it within said covering, and some of said tabs being bent outwardly to form interlocking members adapted to fit between corresponding members on juxtaposed blocks.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

PETER P. McMENAMIN.

Witnesses:
HORATIO WHITING,
PHILIP D. ROLLHAUS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."