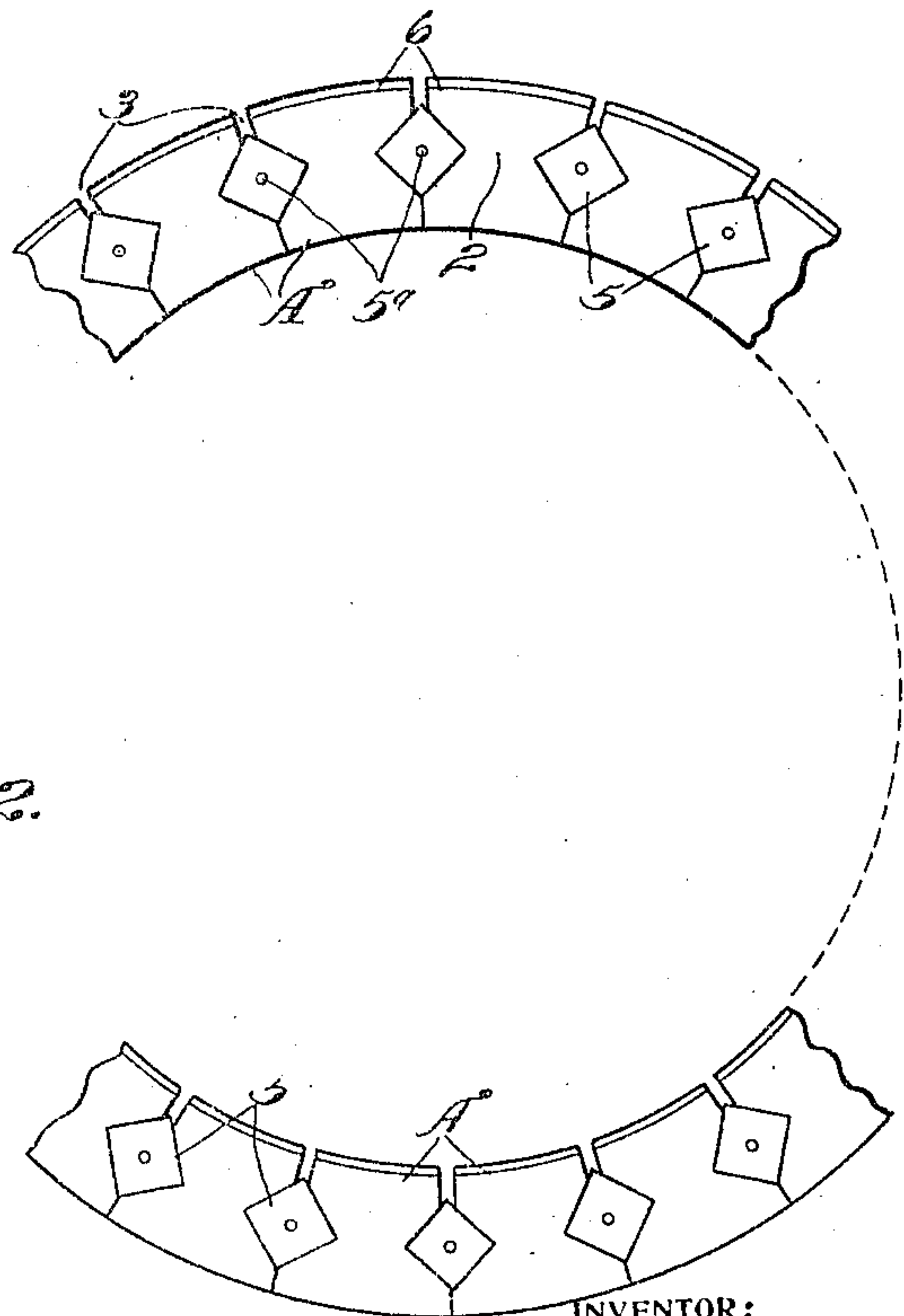
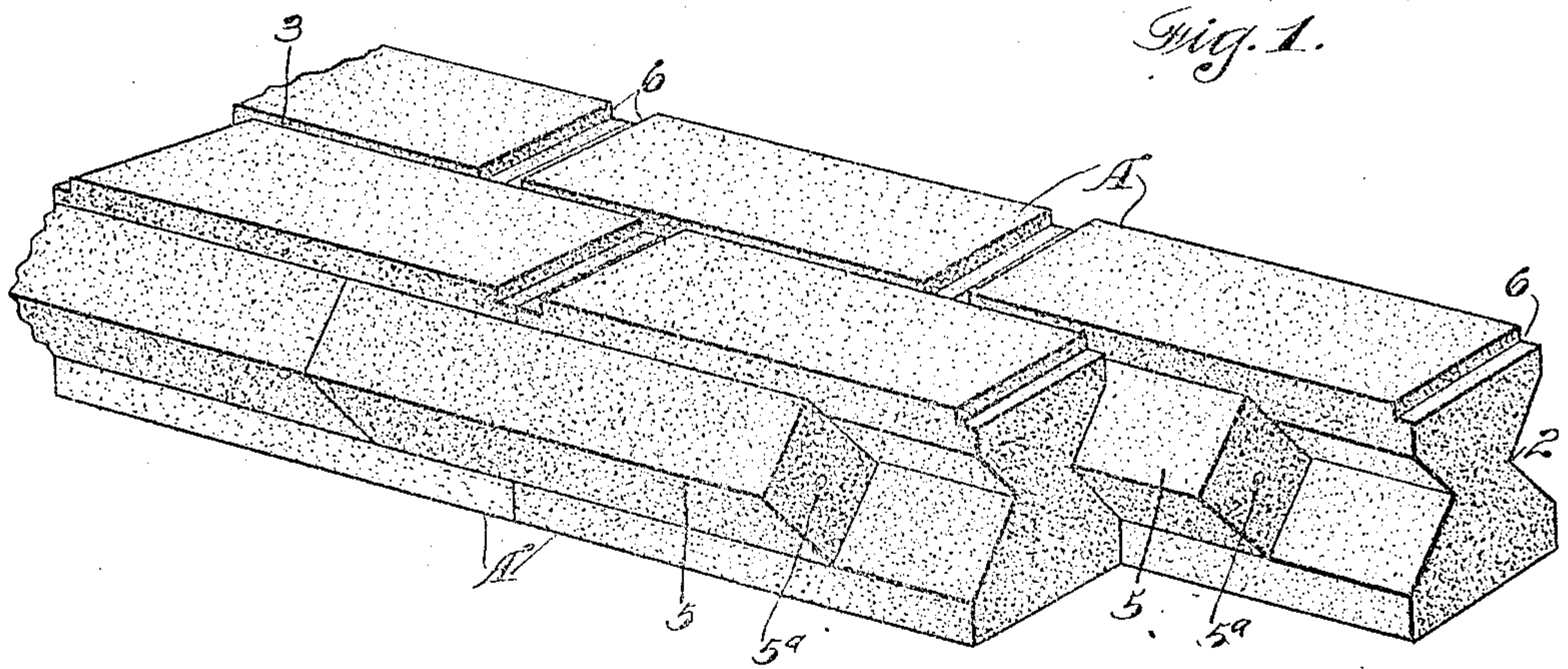


W. H. FULCHER.  
PAVEMENT.  
APPLICATION FILED AUG. 5, 1907.

Patented Mar. 30, 1909.

916,693.



WITNESSES

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# UNITED STATES PATENT OFFICE.

WILLIAM H. FULCHER, OF OAKLAND, CALIFORNIA.

## PAVEMENT

No. 916,693.

Specification of Letters Patent.

Patented March 30, 1909.

Application filed August 5, 1907. Serial No. 387,189.

*To all whom it may concern:*

Be it known that I, WILLIAM H. FULCHER, a citizen of the United States, residing at Oakland, in the county of Alameda and State of California, have invented new and useful Improvements in Pavements, of which the following is a specification.

My invention relates to blocks which may be made of concrete, or other material which can be molded in a plastic state and afterward allowed to set, and in means for uniting such blocks, so as to form structures of any description which may be formed from such blocks.

My invention consists in a novel formation of the blocks, and in the combination therewith of means by which they may be united.

It also includes details of construction, which will be more fully explained by reference to the accompanying drawings, in which—

Figure 1 is a perspective view of the device. Fig. 2 shows a form of arrangement.

The blocks A are made as shown, having substantially parallel top and bottom faces, and the sides made V-shaped with a central neck 2 of smaller diameter than the top and bottom faces. The bottom faces are sufficiently wider than the top faces of the blocks, so that when the blocks are laid side by side with the lower edges in contact, a groove or channel 3 is left between the upper parallel edges. When the blocks are thus laid, rectangular spaces 4 are formed between the contiguous blocks, by reason of the V-shaped indentations of the sides. These spaces serve for the reception of interlocking bars or ties 5, which bars may be made of any suitable material. I have found that they may be made of any plastic material which will set or harden, and such bars may be manufactured and kept on hand in readiness for use wherever required, having been thoroughly hardened before use, and reinforced by rods 5<sup>a</sup>. Grooves or channels 6 are made transversely across the ends of the upper surfaces of the blocks, and these serve to receive a filling of any suitable material. These blocks may be laid parallel with each other, and the joints of each abutting pair of blocks may stand opposite the sides of contiguous blocks, so that they break joints. As the blocks are laid, the

uniting bars or ties 5 may be inserted, and when the series of blocks have been laid with these uniting bars or ties, a filling of plastic material may be introduced into the open channels 3, so as to fill in around the bars 5, and thus make a solid unitary structure.

If used as a pavement, it will be seen that the bars 5, interlocking with the blocks, and connecting any number of them, will prevent the blocks settling one below another, so as to become irregular; and if the outer edges of the blocks are supported by rigid abutting sides, such as the curbs of a street, it will be manifest that the whole system will be so interlocked as to become a practical unitary structure, and will not be rendered irregular by settling. The reinforcing rods extending through the key-bars will prevent the breaking of said bars by shocks or strains.

Having thus described my invention, what I claim and desire to secure by Letters Patent is—

1. A pavement consisting of molded rectangular blocks having approximately even height and having a length equal to a plurality of diameters, said blocks having longitudinal V-shaped channels extending along their long sides only, and the bottom faces of the blocks being made wider than the top faces, and rectangular molded bars extending from end to end of the blocks and fitting loosely in said channels, and a filling of cement around the bars.

2. A pavement consisting of molded blocks having a length equal to a plurality of diameters, and having V-shaped channels in their long sides, said blocks being laid to break joints at the ends, and having their bottom faces of greater width than the top faces whereby the groove or channel is left between the upper parallel edges of adjacent blocks, key-bars having longitudinally embedded reinforcing rods, said bars extending across the joints of the blocks forming a loose fit with the channels, and a filling of cement around the bars.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WILLIAM H. FULCHER.

Witnesses:

A. K. DAGGETT,  
S. H. NOURSE.