No. 775,486. PATENTED NOV. 22, 1904.

J. G. WOLF.

# PAVING BLOCK OR SET FOR USE ALONG THE RAILS OF TRAMWAYS.

APPLICATION FILED JUNE 21, 1904.

NO MODEL.

Fig. 1.

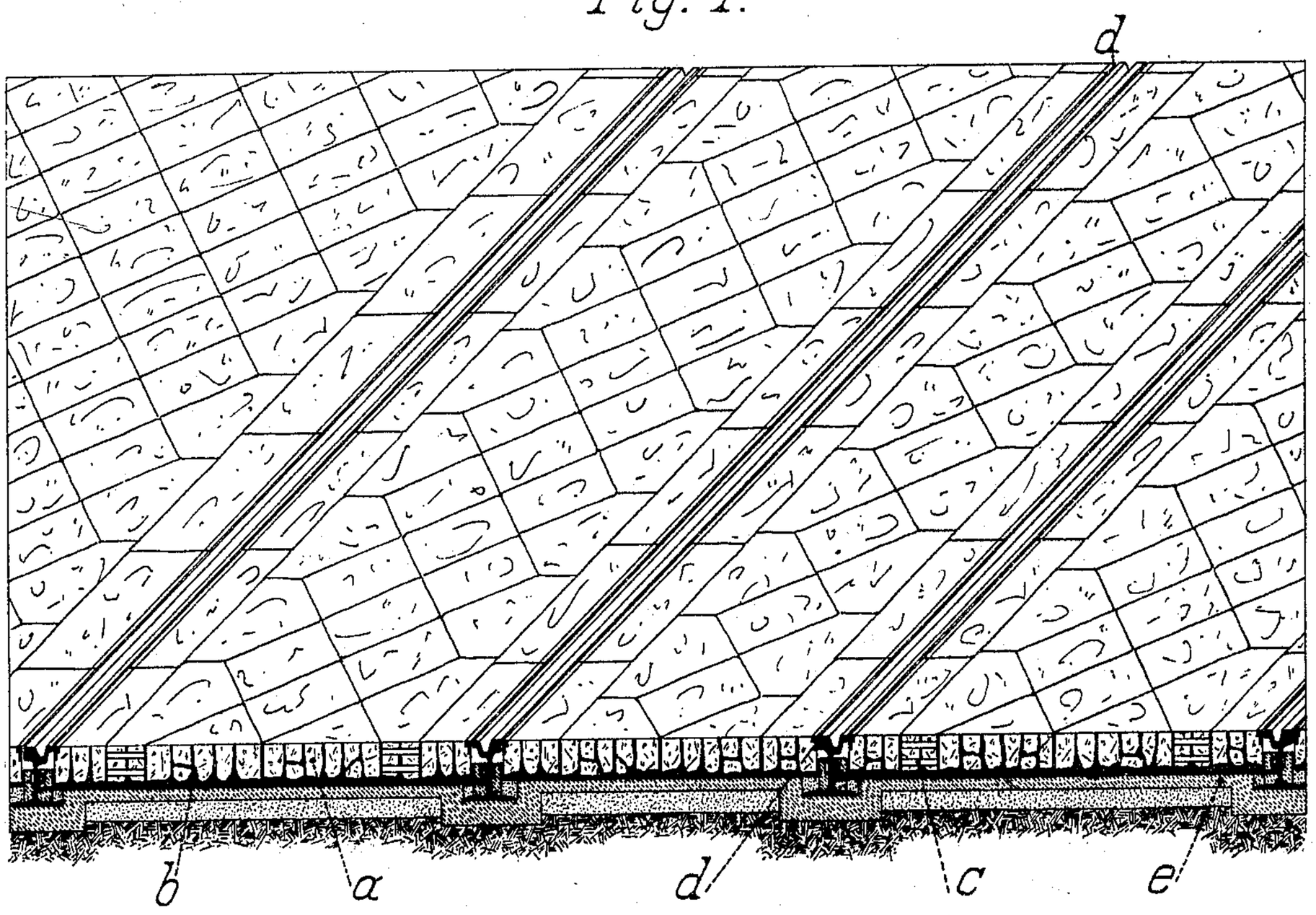



Fig. 2.

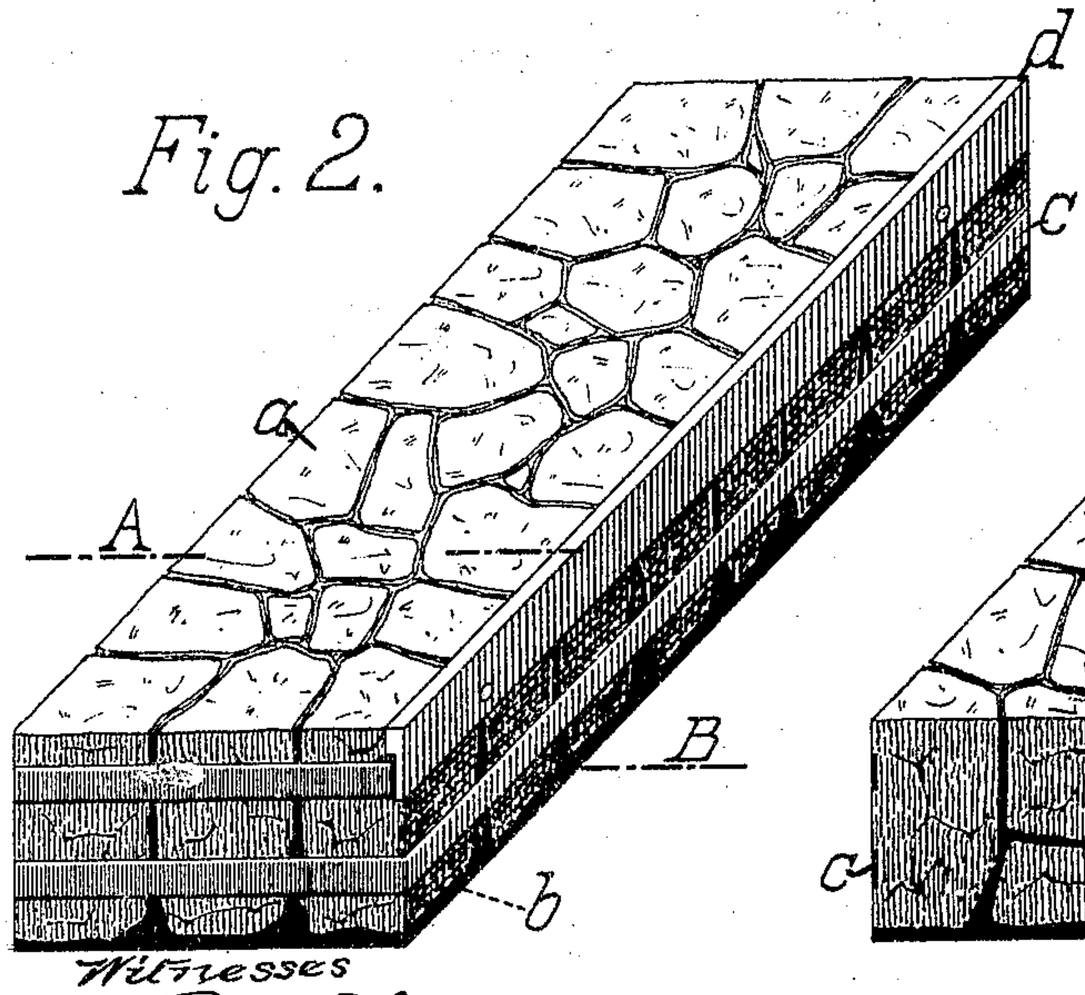
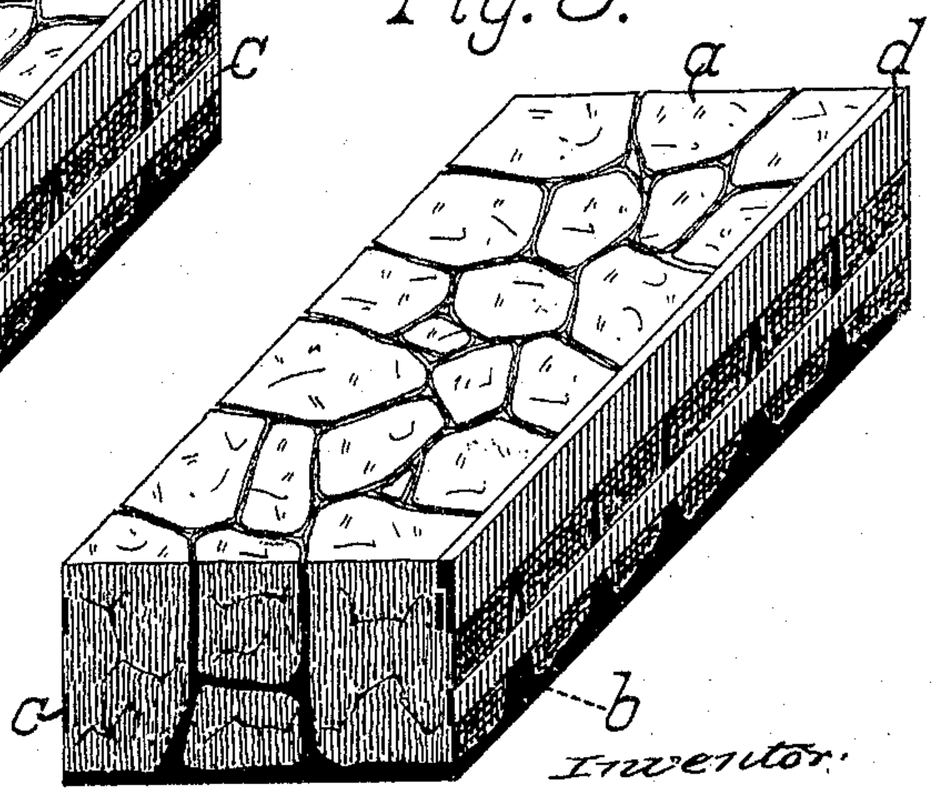



Fig. 3.




Witnesses

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No. 775,486. Patented November 22, 1904.

# UNITED STATES PATENT OFFICE.

JOHANN GUIDO WOLF, OF GRATZ, AUSTRIA-HUNGARY.

## PAVING BLOCK OR SET FOR USE ALONG THE RAILS OF TRAMWAYS.

SPECIFICATION forming part of Letters Patent No. 775,486, dated November 22, 1904.

Application filed June 21, 1904. Serial No. 213,559. (No model.)

*To all whom it may concern:*

Be it known that I, JOHANN GUIDO WOLF, a citizen of the Empire of Austria-Hungary, residing at Gratz, in the Empire of Austria-Hungary, have invented certain new and useful Improvements in Paving Blocks or Sets for Use Along the Rails of Tramways; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to make and use the same.

Paving blocks or sets as hitherto laid along the rails of tramways possess the disadvantage that the edges of the sets which are adjacent to the tops of the rail are subjected to heavy wear by vehicles which are driven over or along the rails.

The object of the present invention is to overcome this drawback, and to this end I employ an artificial paving block or set, one horizontal edge of which is armed or fitted with a protecting member.

The invention will be understood from the following description of the construction and application of an example of paving block or set made in accordance therewith and upon reference to the accompanying drawings, in which—

Figure 1 is an isometrical perspective view of a paving along a double-track tramway. Fig. 2 is a view, on a larger scale, of the paving-block; and Fig. 3 is a view, also on a larger scale, of the block in section on the line A B of Fig. 2.

The improved block is made from natural flint, rubble, or other stones, quarry-stones, or broken stones *a* of suitable or convenient size united to form a block by cement mortar, cement beton, or concrete *b*, the said stones having rough, angular, or irregular faces to assist the binding action of the cement or other binding agent used. The lateral faces of the block are vertical and are even or smooth. They are bound or banded with iron or steel bars or ties *c* of any desired section for the purpose of counteracting the pressure on top of the block by the grip of the iron or steel bands or ties on the circumference of the block. I arm or reinforce one horizontal edge of the block with an angle-iron *d*, the angle of which may be suitably rounded or not. This angle-iron is secured by riveting or in other suitable manner to one or more of the said iron or steel bands or ties.

When these blocks are laid along the tramway-rails, with the edge fitted with angle-iron *d* adjacent to the rail and projecting or not slightly above the upper edge thereof, the edges of the blocks adjacent to the rails are protected from the destructive action of vehicle-wheels driven on or over the rails, and the said wheels are enabled to roll smoothly and easily over the rails.

A bed or layer *e* of beton or concrete may be laid under the entire paving, including the rails, and in this manner the rails and the paving may be firmly united or connected. This connection also prevents the rails oscillating under the effect of the traffic. For other portions of the roadway—that is to say, portions not immediately contiguous to the rails—I may employ sets or blocks made of stones and cement, concrete, or the like, as above described, and banded or not with iron or steel ties, but without the protecting angle-iron.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim as new, and desire to secure by Letters Patent of the United States, is—

A paving-block made of natural stone, broken stone and a binding material such as cement, beton or concrete, having the lateral faces surrounded by bands of steel or iron and having one of the upper edges armed with an angle-iron, the same being firmly secured to the iron bands, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

JOHANN GUIDO WOLF.

Witnesses:

ALVESTO S. HOGUE,

AUGUST FUGGER.