

UNITED STATES PATENT OFFICE.

JOSEPH J. SCHROYER, OF SPRINGFIELD, ILLINOIS, ASSIGNOR OF ONE-HALF HIS RIGHT TO CHARLES A. HELME, OF SAME PLACE.

IMPROVEMENT IN WOOD PAVEMENTS.

Specification forming part of Letters Patent No. 165,882, dated July 20, 1875; application filed June 26, 1875.

To all whom it may concern:

Be it known that I, J. J. SCHROYER, of Springfield, in the county of Sangamon and State of Illinois, have invented a new and valuable Improvement in Wooden Pavements; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, and to the letters and figures of reference marked thereon.

The figure of the drawings is a representation of a vertical section of my improved pavement.

My invention relates to an improved means of preserving the wooden blocks of a pavement, consisting of several layers of such blocks superimposed one upon the other; and it consists in providing each block of the upper layer of the pavement with recesses near their upper surfaces, into which petroleum and wet salt are introduced and confined by plugs, the petroleum, by capillary attraction and gravity, impregnating the upper layer of blocks, and thence being carried down to the layer below, thus effectually preserving them, as will be hereinafter more fully described.

In the accompanying drawings, A represents a properly-prepared road-bed, over which are laid the planks B, running lengthwise of the street at any desired distance apart. Over the planks B transverse sleepers C are laid, in width about equal to the paving-blocks, hereinafter described. The spaces C' between the sleepers are filled with fine sand or gravel flush with the surface of the sleepers. On top of these sleepers cleats D are nailed, running lengthwise of them. The paving-blocks E are laid on the sleepers C, and are retained in place by the cleats D, fine sand or gravel being introduced into the spaces E' between the paving-blocks E. The letters F' indicate

recesses or mortises made in the blocks E near their upper surfaces, and extending, preferably, more than half-way through them in a horizontal direction. Into these recesses F' petroleum and wet salt are introduced, and confined and compressed therein by the plugs F tightly fitting the recesses F', being of less length than said orifices.

The wood preservative thus introduced and compressed into the recesses will, by capillary attraction, gradually impregnate the pores of the upper tier of the paving-blocks E, and thence pass into the wooden layers below.

I have described and shown my invention as applied to layers of wood as I preferably arrange them, though it is obvious that it can be applied to layers of wooden blocks differently arranged.

I am aware that whale-oil and salt have heretofore been inserted between the timbers of vessels, as in Carey's process, and I therefore make no claim to such process, in which the whale or other oil is liable to become rancid in time, forming vegetable acids which rot the timber, which is not the case when petroleum is used.

What I claim as my invention, and desire to secure by Letters Patent, is—

A wooden pavement composed of several layers of blocks superimposed upon each other, the upper tier of blocks being provided with recesses near their upper faces, into which petroleum and wet salt are introduced, and confined by a plug, substantially as described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOSEPH J. SCHROYER.

Witnesses:

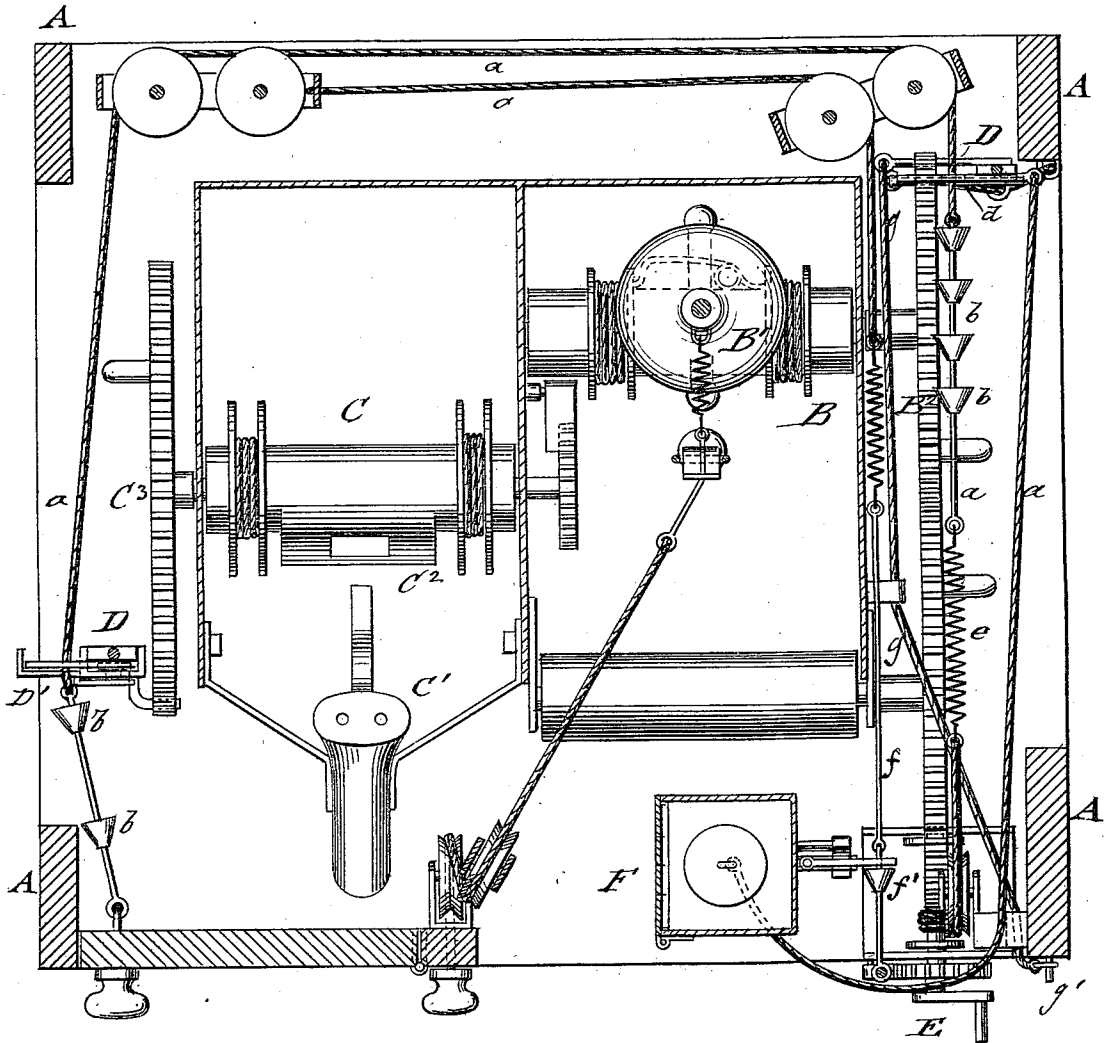
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**S. SEARIGHT.
Burglar-Alarm.**

No. 165,883.

Patented July 20, 1875.

Fig. 1.



WITNESSES:

E. Wolff
A. F. Terry

INVENTOR:

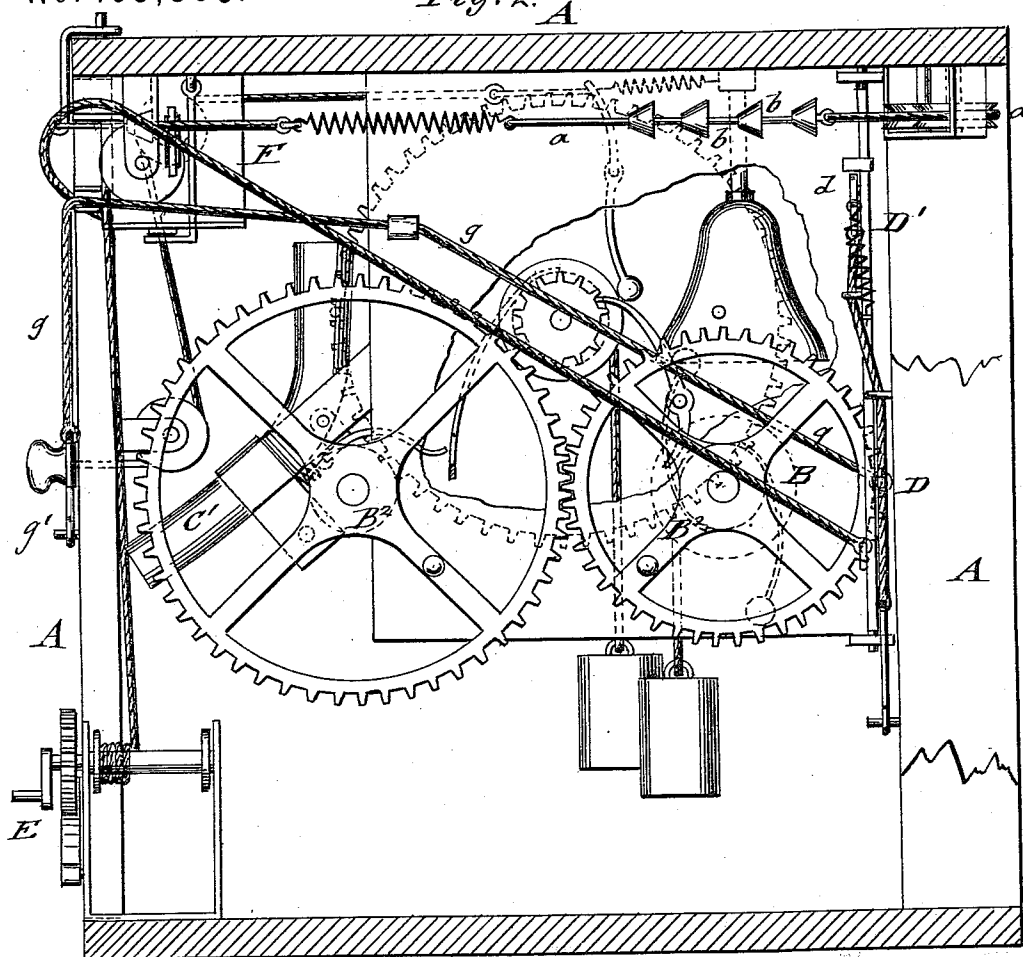
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Fig. 2. A



WITNESSES:

E. Wolff.
A. H. Terry

INVENTOR:

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