M. E. WORRELL.

Pavements.

No. 134,622. Patented Jan. 7, 1873.

Fig. 1.

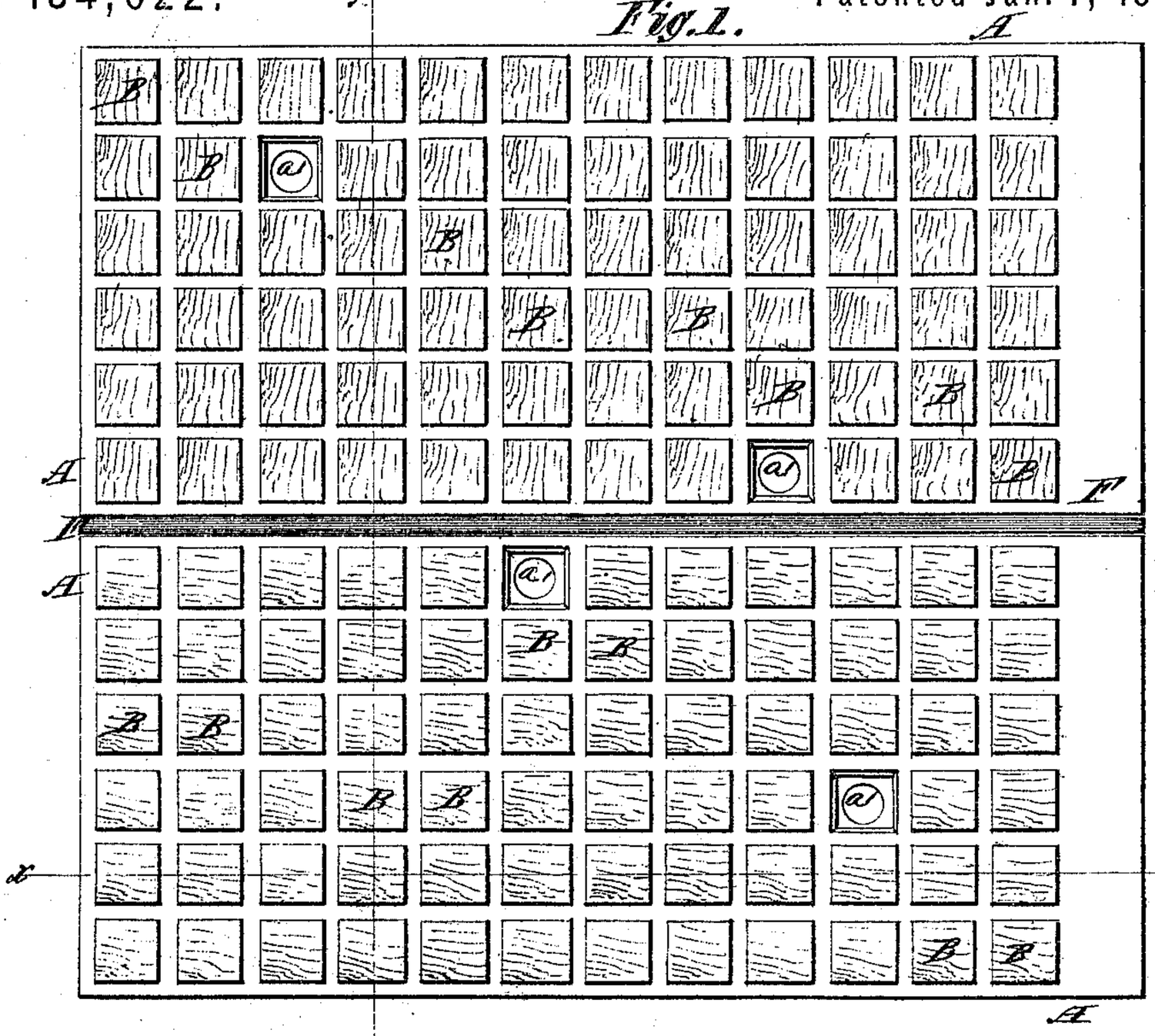


Fig. 2.

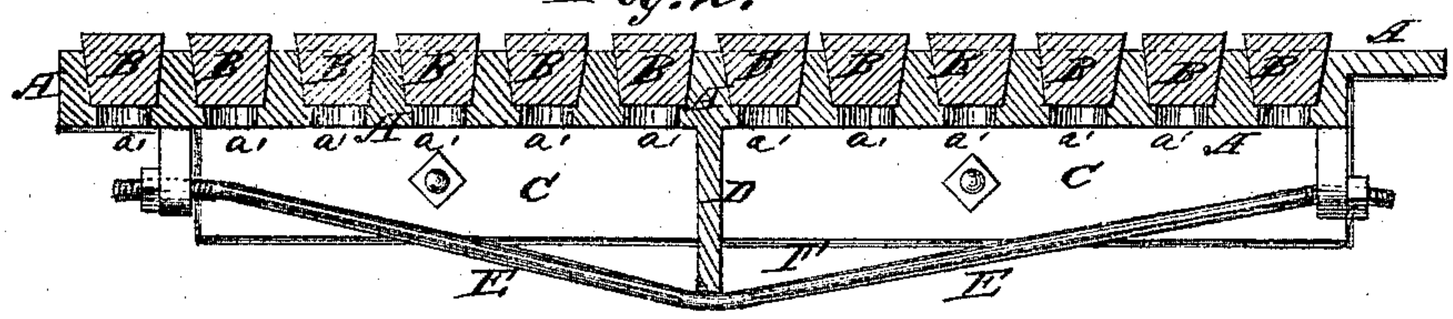
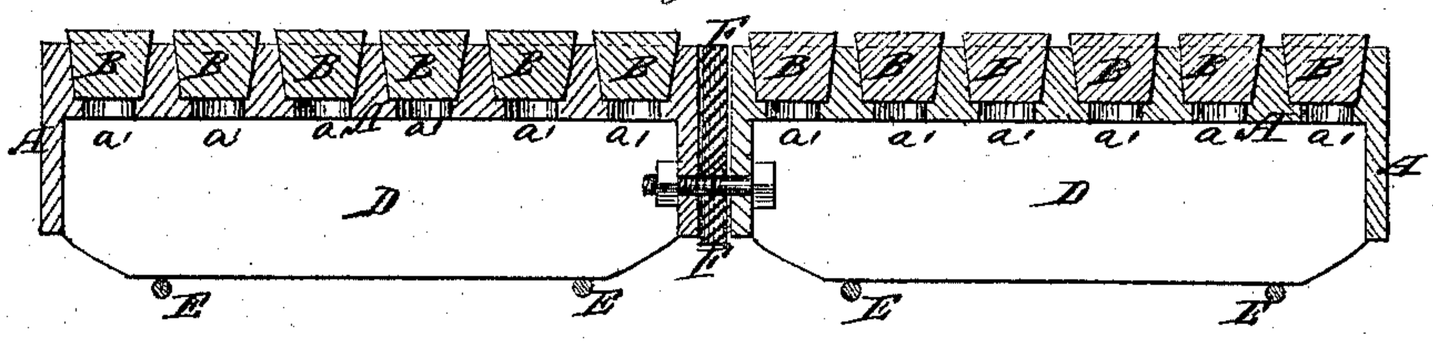


Fig. 3.



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UNITED STATES PATENT OFFICE.

MILTON E. WORRELL, OF MONMOUTH, ILLINOIS.

IMPROVEMENT IN PAVEMENTS.

Specification forming part of Letters Patent No. **134,622**, dated January 7, 1873.

To all whom it may concern:

Be it known that I, MILTON E. WORRELL, of Monmouth, in the county of Warren and State of Illinois, have invented a new and useful Improvement in Combined Iron and Wood Pavements, of which the following is a specification:

Figure 1 is a top view of two sections of my improved pavement. Fig. 2 is a detail sectional view of the same taken through the line *x x*, Fig. 1. Fig. 3 is a detail sectional view of the same taken through the line *y y*, Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved pavement for sidewalks, vault-covers, and other uses, and which shall be simple in construction, strong, durable, not liable to get out of order, and easily repaired; and it consists in the construction and combination of the various parts of the pavement, as hereinafter more fully described.

A are iron plates, which are formed of suitable size, and with cells in their upper sides to receive wooden blocks B. The partitions between the cells should be made thicker in their lower parts to make the cells tapering, so that the wooden blocks may be driven into them. The cells may be made of any desired shape, the wooden blocks B being made of the same shape. The plates A are made with downwardly-projecting flanges C upon their side edges, and with downwardly-projecting cross-flanges D. The plates A are also strengthened by the brace or stay rods E which cross the lower edges of the cross-flanges D and pass through lugs formed upon the under side of the said plates A, as shown in Figs. 2 and 3. The sections are secured to each other by bolts passing through the side flanges C, rubber or other elastic packing F being interposed between them, as shown in Figs. 1 and 2, of sufficient thickness to enable the sections to expand and contract with changes of temperature without breaking them or loosening or weakening the pavement, and always keeping a water-tight joint. The pores of the blocks B should be filled with asphalt or other substance that will prevent the water from soaking in. In the plates A in the bottoms of the cells are formed holes *a'* to enable the blocks B to be conveniently driven out when worn, when the pavement is used for covering sidewalks, vaults, &c., and replaced with new ones without disturbing the plates A.

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

An improved combined iron and wood pavement formed by the combination of the perforated cellular iron plates A, edge flanges C, cross-flanges D, stay-rods E, wooden blocks B, and rubber or other elastic packing F with each other, substantially in the manner herein shown and described, and for the purpose set forth.

MILTON E. WORRELL.

Witnesses:

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