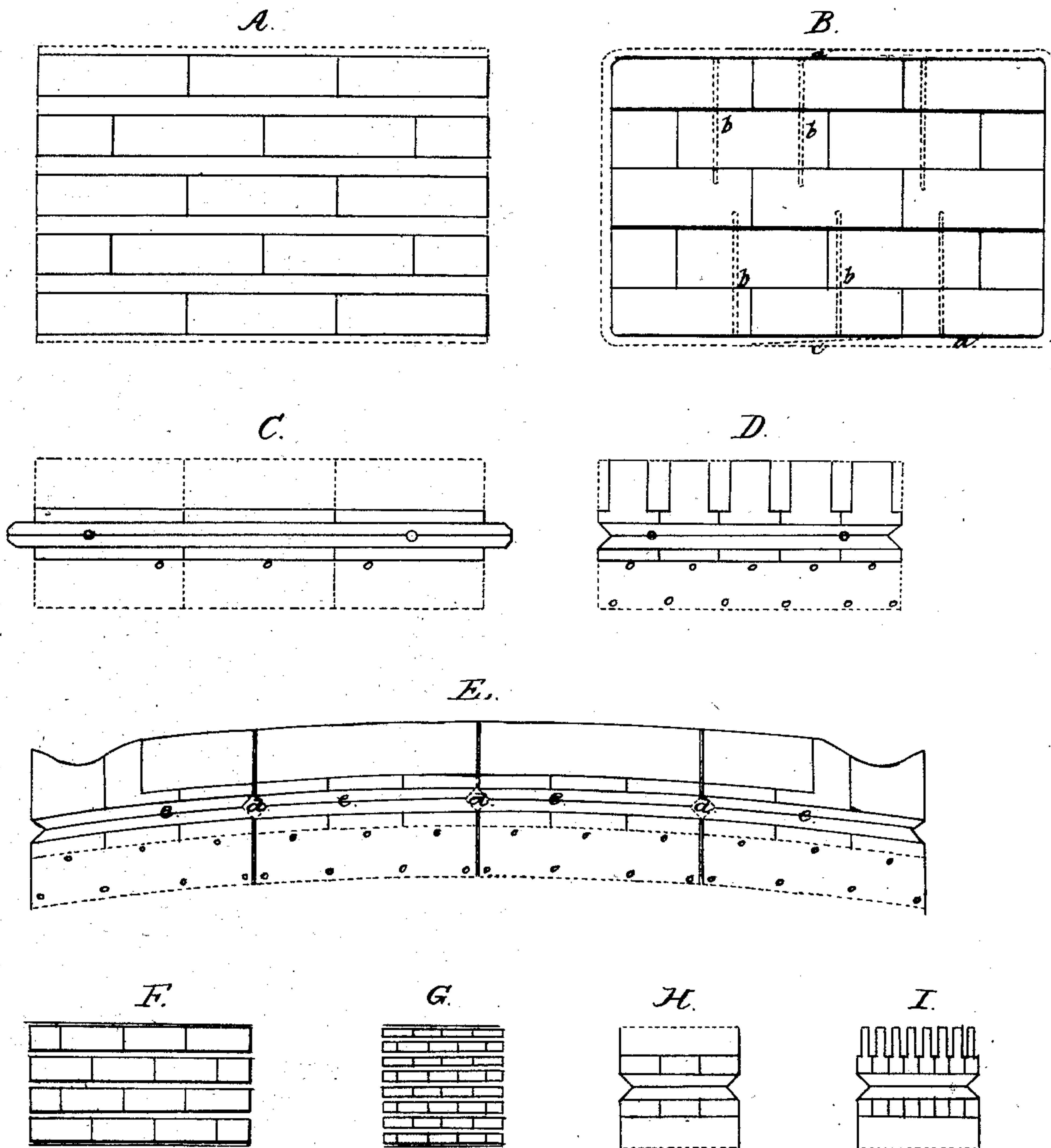


R. L. Ream.

Wood Pavement.

Nº 69,703.

Patented Oct. 8, 1867.



Witnesses.

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ROBERT L. REAM, OF NEW YORK, N. Y.

Letters Patent No. 69,703, dated October 8, 1867.

IMPROVED WOODEN PAVEMENT.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, ROBERT L. REAM, of the city and State of New York, have invented new and useful Improvements in Wooden Pavements; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

The nature of my invention consists in a removable and replacable wooden pavement, when constructed by forming sections of pavement by fastening together wooden blocks by means of iron spikes or wooden pins, and wooden bands made of hickory or white oak timber, and interlocking the sections with each other so as effectually to prevent them from becoming displaced, and compelling them to support each other laterally, and then grooving said sections so that they may be locked together by removable and replacable keys, as will be explained.

A represents the upper side of the section, consisting of seventeen blocks. B represents the bottom side of the section, *a* being rabbeted out for the band at its base, *b b*, &c., spikes or pins driven from the exterior sides towards the centre of the section, very near the upper edge of the rabbet, and before the band is put on, as seen in drawing C. The spikes or pins should be long enough to penetrate the centre tier of blocks in the section. C represents the side of the section, showing where the spikes or pins are placed before putting on the band, and the groove or half diamond, with the timber or key temporarily affixed. D shows the end of the section with the band nailed on complete, and spliced as at *c*, in drawing B. The sections being put together by means of spikes or pins and bands, are then grooved around the centre in shape of a half diamond, the outer edge of said groove being the hypotenuse of a right-angled triangle. The pieces of timber temporarily affixed to the section, called keys, show the mode of interlocking the sections with each other. E represents a tier of sections laid transversely across the street, the grooves or half diamonds matching each other. This groove is then keyed with a square piece of timber, *d*, made to fit it snugly, the key being also grooved at each end to correspond with its fellow-section on each side. *e* represents a continuous groove running entirely across the street, and, in laying down the adjoining tier of sections, breaking joints, as represented in drawing F. The groove between the tiers of sections is also keyed with fitting timbers from curb to curb, completely interlocking the sections with each other. G represents the face or upper side of a section suitable for sidewalk pavement. H represents the side view, and I the end view of the same section complete, with band and groove similar to the sections used for paving streets. These sections are put together in all respects similar to those used for street pavement, with spikes or pins reaching to the centre of the blocks, bound with wooden bands at the base, and interlocked with keys on all sides to keep them securely in their places. The blocks comprising the sections, before being used for that purpose, should be dipped into hot coal tar, or put through some other wood-preserving process, so as to prevent decay. The sections should then be set upon a base of plank covering the street or sidewalk, (properly graded,) which should also undergo a similar preserving process.

By using a key-block at any suitable part or place in the pavement, which can be taken out, the keys of the sections may then be withdrawn, and the pavement taken up or put down, as, for instance, for repairs, or for laying pipes, sewers, &c., in the street.

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

In the construction of wooden pavements the removable and replaceable notched keys for locking, in transverse directions, sections made of a series of blocks, spiked, grooved, and banded together, as herein described, so that the sections may be taken up when pipes or sewers are to be laid in the street, and readily laid down again, or for repairs, as set forth.

ROBERT L. REAM.

Witnesses:

T. C. CONNOLLY,
HENRY A. NOLEN,