

W. GERHARD, Jr.

Malt Drier.

Patented Aug. 17, 1869.

No. 93,701.

Fig. 1.

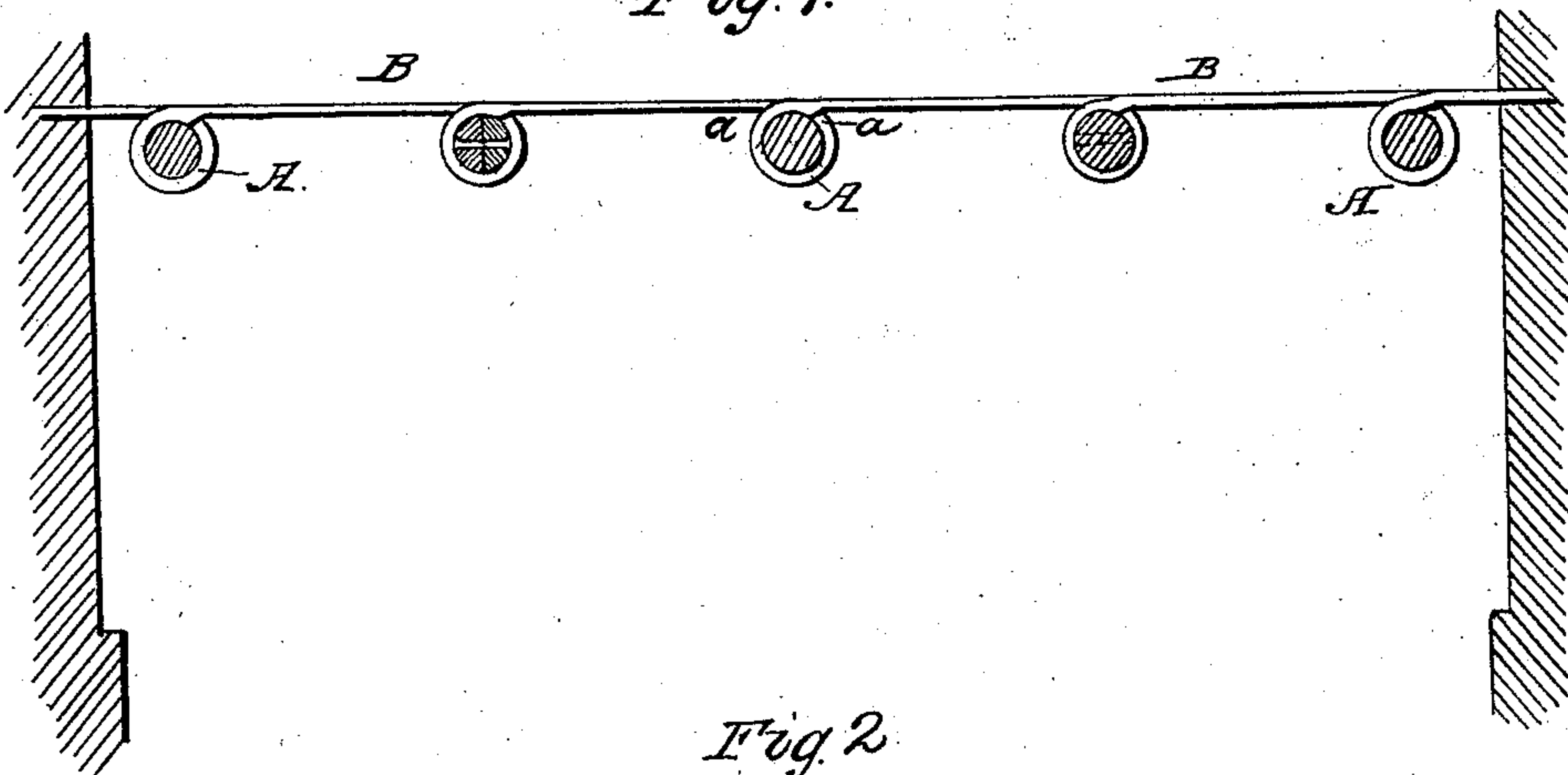
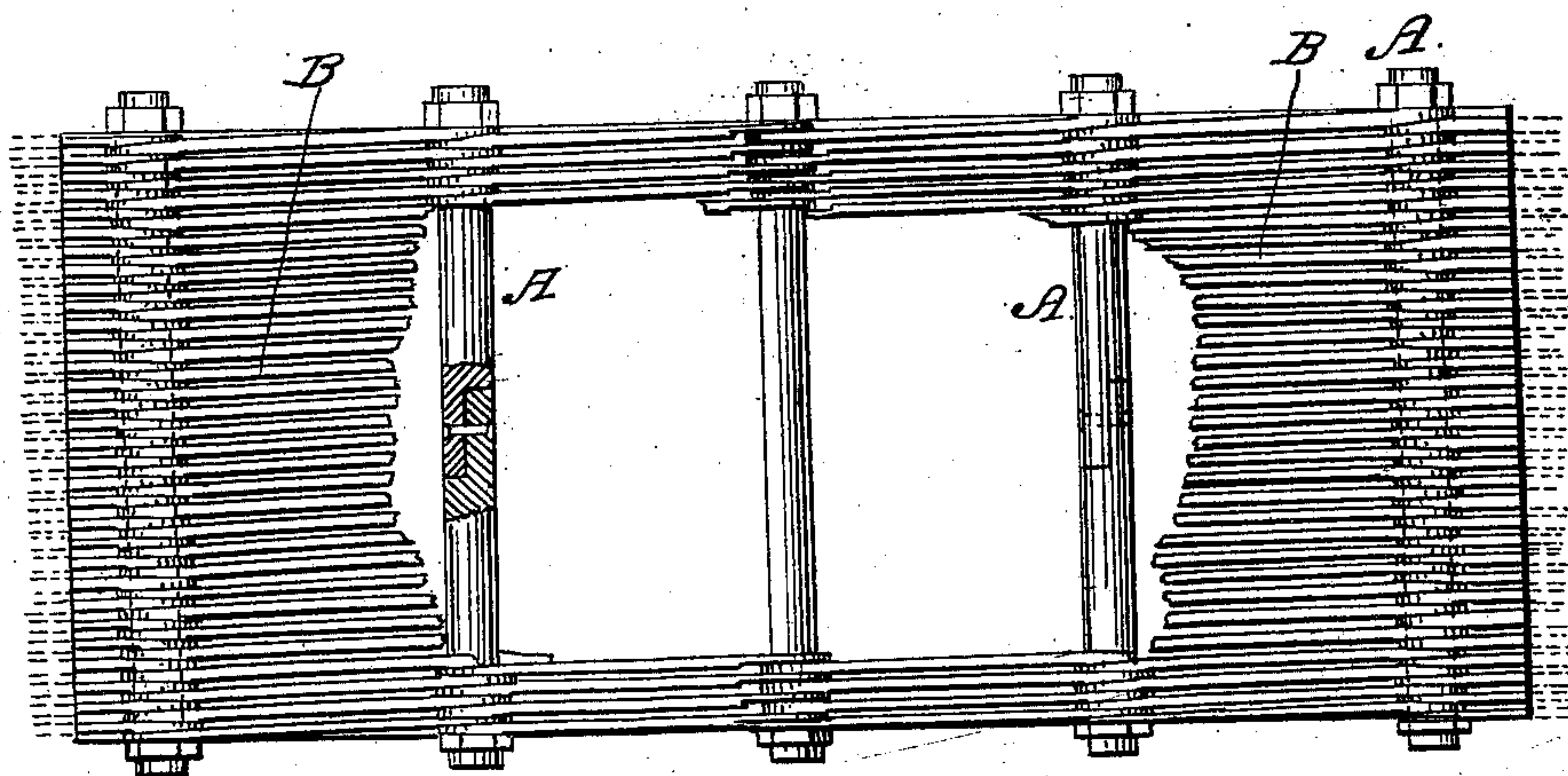


Fig. 2.



Witnesses
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WILLIAM GERHARD, JR., OF FLORENCE, MASSACHUSETTS.

Letters Patent No. 93,701, dated August 17, 1869.

IMPROVED FLOOR FOR MALT-KILNS.

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, WILLIAM GERHARD, Jr., of Florence, in the county of Hampshire, and State of Massachusetts, have invented a new and improved Floor for Malt-Kilns; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 represents a vertical longitudinal section of my improved kiln-floor.

Figure 2 is a plan or top view, partly in section, of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new manner of constructing malt-kiln floors of longitudinal wires, and has for its object to avoid any projection on the drying-surface.

Wire floors have already been made, in which the several wires were tied together by small transverse wires fitted around them.

Such transverse wires were in the way of the grain, while the same was turned and moved on the floor, and much grain was thereby crushed and lost.

My invention consists in winding the wires around cross-bars, below them, so that the surface of the floor will be smooth and without projections.

A A, in the drawing, represent a series of solid or hollow transverse cross-beams or bars, made preferably of iron, although they can also be made of other suitable material. They are, with their ends fitted into or supported, on the walls of the kiln.

B B are the longitudinal wires that constitute the floor.

Each wire B is wound around each cross-bar from above, and stretched between the cross-bars, so as to be smooth and without projections above the said cross-bars.

The various wires are laid as close together as practicable, the spaces between them being diminished, if desired, by compressing or narrowing the wires by filing, or otherwise, where they are wound around the cross-bars.

The floor, thus made, will be perfectly smooth. The spaces between the wires are sufficiently large to admit the requisite quantity of air to the malt.

In case it should be desirable to use the wires B, in sections, the junctions between the several pieces are made, where they are wound around the cross-bars, as indicated at *a* in the drawing.

The cross-beams can also be made in pieces that are dovetailed or jointed at their junctions, as in fig. 2, and riveted together, as shown.

Having thus described my invention,

I claim as new, and desire to secure by Letters Patent—

The malt-kiln floor, consisting of the wires B B, which are wound around the cross-bars A, to form a smooth upper surface, substantially as herein shown and described.

WILLIAM GERHARD, JR.

Witnesses:

E. G. DURANT,
N. S. CLEMENT.