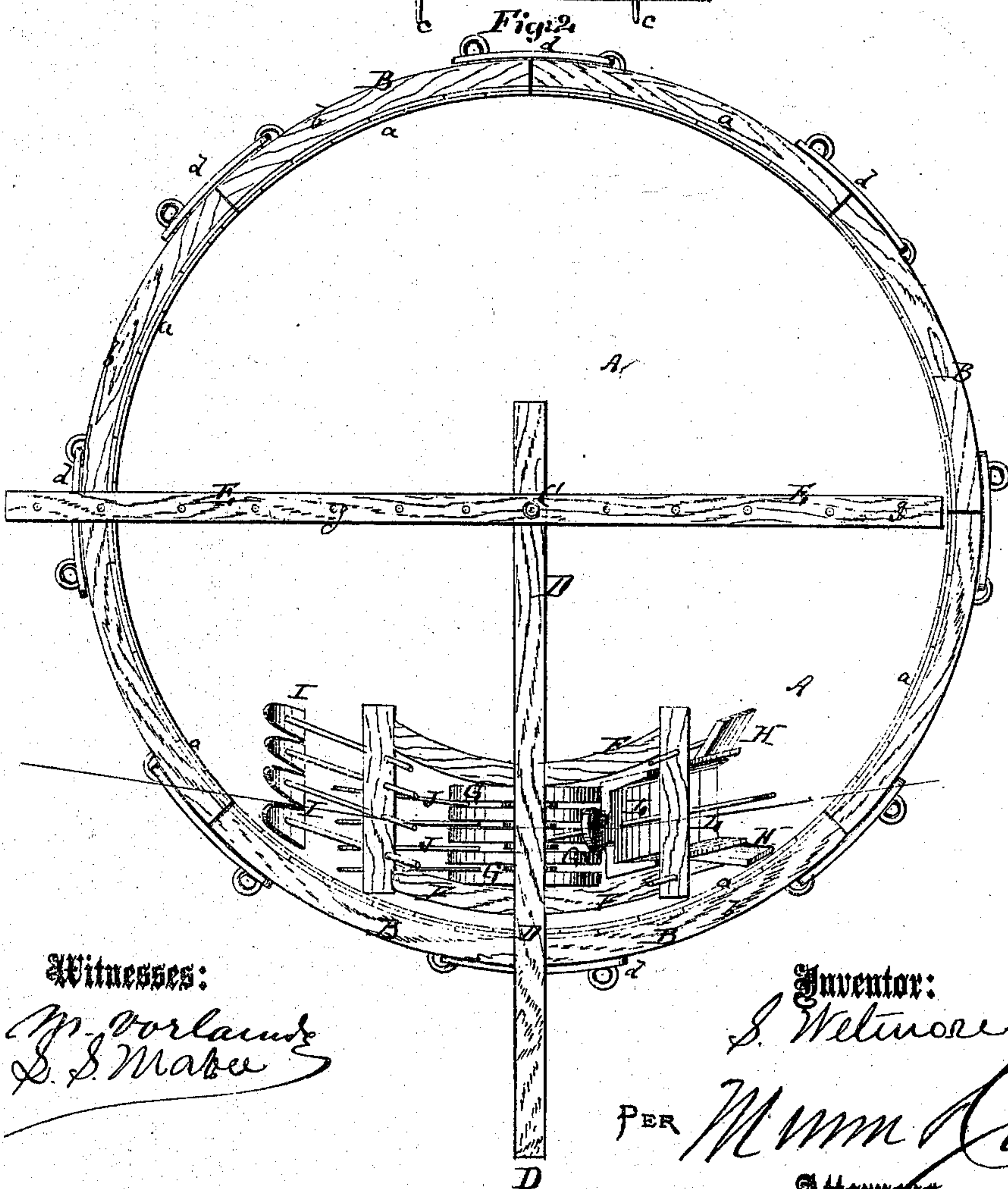
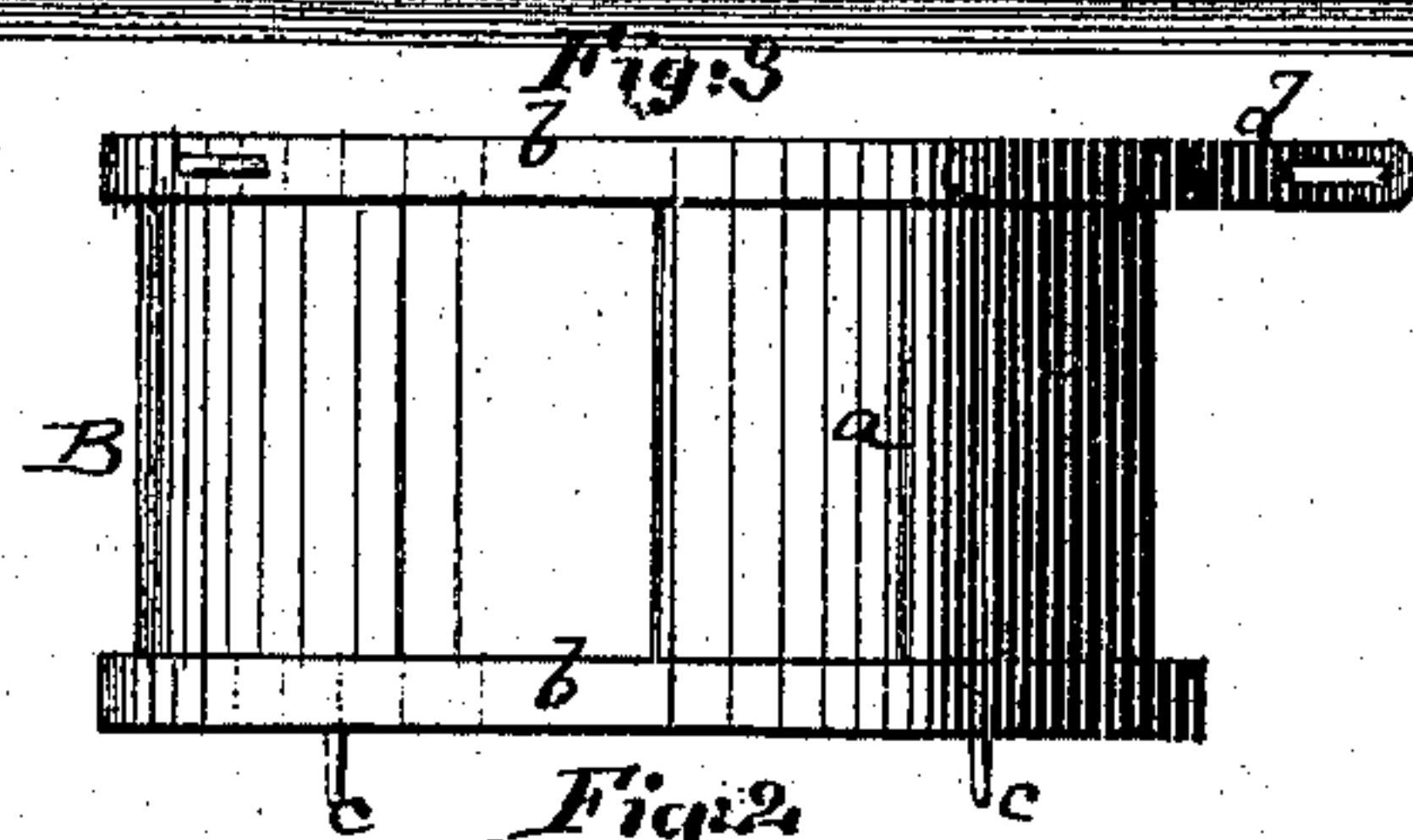
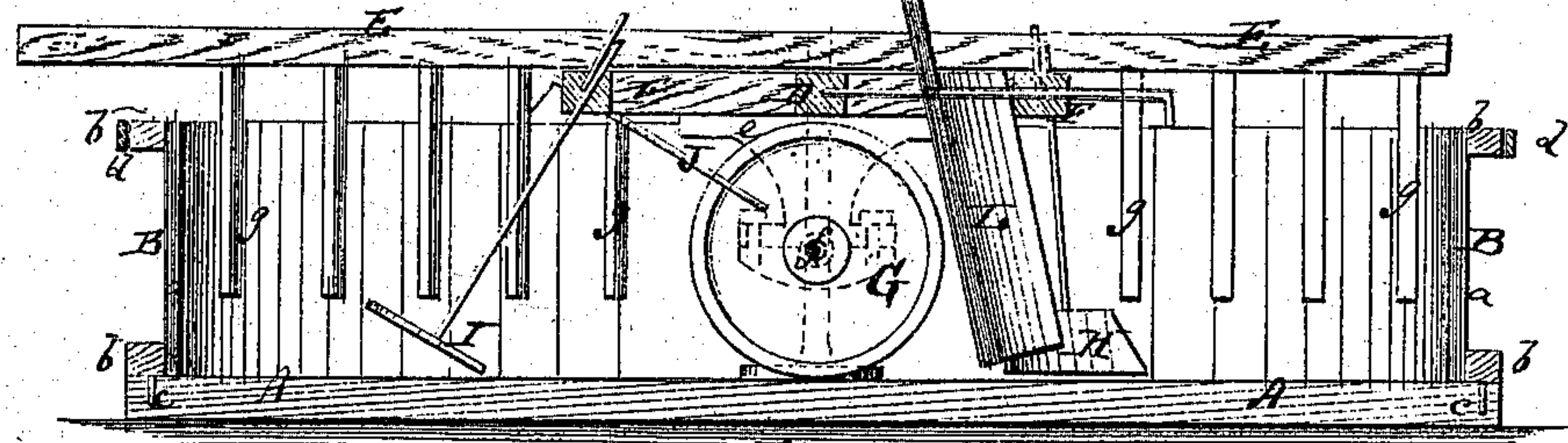


S. WETMORE.
MORTAR MIXER.

No. 104,519.

Fig. 1. Patented June 21, 1870.



Witnesses:

*Mr. Vorland
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Inventor:

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United States Patent Office.

SETH WETMORE, OF WELLSBOROUGH, PENNSYLVANIA,

Letters Patent No. 104,519, dated June 21, 1870.

IMPROVEMENT IN MORTAR-MIXERS.

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, SETH WETMORE, of Wellsborough, in the county of Tioga and State of Pennsylvania, have invented a new and improved Mortar-mixing Machine; 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 section of my improved mortar-mixing machine, the plane of section being indicated by the line *x x*, fig. 2.

Figure 2 is a plan or top view of the same.

Figure 3 is a detail side view of a section of the rim.

Similar letters of reference indicate corresponding parts.

The object of this invention is to construct a machine by which mortar for building purposes can be more completely mixed and tempered than can be done by the ordinary manual process.

The invention consists in the use of an apparatus by means of which the mortar can, on a circular bed, be most thoroughly mixed, and displaced in larger quantities, and with less difficulty, than by the ordinary method.

The invention consists, also, in a novel construction of the rim of the bed, the said rim being made in sections, that are locked together, so as to be removable, as hereinafter more fully described.

A in the drawing represents the circular bed of my improved mixing-machine.

B is the circular rim or border of the same.

The rim is composed of a series of sections, *a a*, each section consisting of a number of upright staves or boards, that are held together by ribs or horizontal bands *b b*.

Each section is provided with two or more downward-projecting pins or tenons, *C C*, which fit into apertures provided in the bed A, to hold the sections in place.

The several sections are, furthermore, locked together by means of straps *d d*, as shown.

From the center of the bed projects a vertical fixed pin or shaft, *C*, to which the sweeps *D* and *E* are hung loose.

The sweep *D* extends from one side of the pin *C*, and carries a frame, *F*, from which, in downward-projecting brackets *e e*, a horizontal shaft is suspended.

Upon this shaft are hung five, more or less, wheels or rollers, *G G*, which are, by means of washers or otherwise, held suitable distances apart.

In front of the rollers are suspended, from the frame *F*, scrapers *H*, which are set oblique, to collect the mortar for the action of the rollers.

Behind the rollers is suspended, from the frame *F*, a series of inclined shovels, *I I*, which scatter and separate the mortar that was compressed by the rollers.

J J are rods or springs held against the faces of the rollers, for the purpose of keeping the same clean, and preventing clogging.

The second sweep *E* extends over the entire bed, as shown, and has downward-projecting teeth, *g g*, which serve to stir and agitate the mortar.

Both sweeps may be operated by animal or other suitable power.

After the mortar has been properly mixed and tempered, it is collected in one heap by means of a broad scraper, *L*, which is for that purpose secured to the front of the frame *F*; but which is not used during the agitating process.

Having thus described my invention,

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

1. The improved mixing-bed A, having the circular rim B, made in sections, and formed of upright staves, surrounded by bands *b*, as shown and described.

2. The bands *b*, having projections *c*, to fit into corresponding apertures in the bed, combined with straps *d*, to retain the staves firmly in position.

3. The combination of the toothed sweep *E* with the mixing-sweep *D*, each constructed, relatively arranged, and operated as set forth.

4. A series of rollers, *G*, and spring chambers *J J*, having an interval between them, combined with oblique scrapers *H* and inclined shovels *I*, all constructed and relatively arranged as and for the purpose specified.

SETH WETMORE.

Witnesses:

J. F. DONALDSON,
JOB WETMORE.