

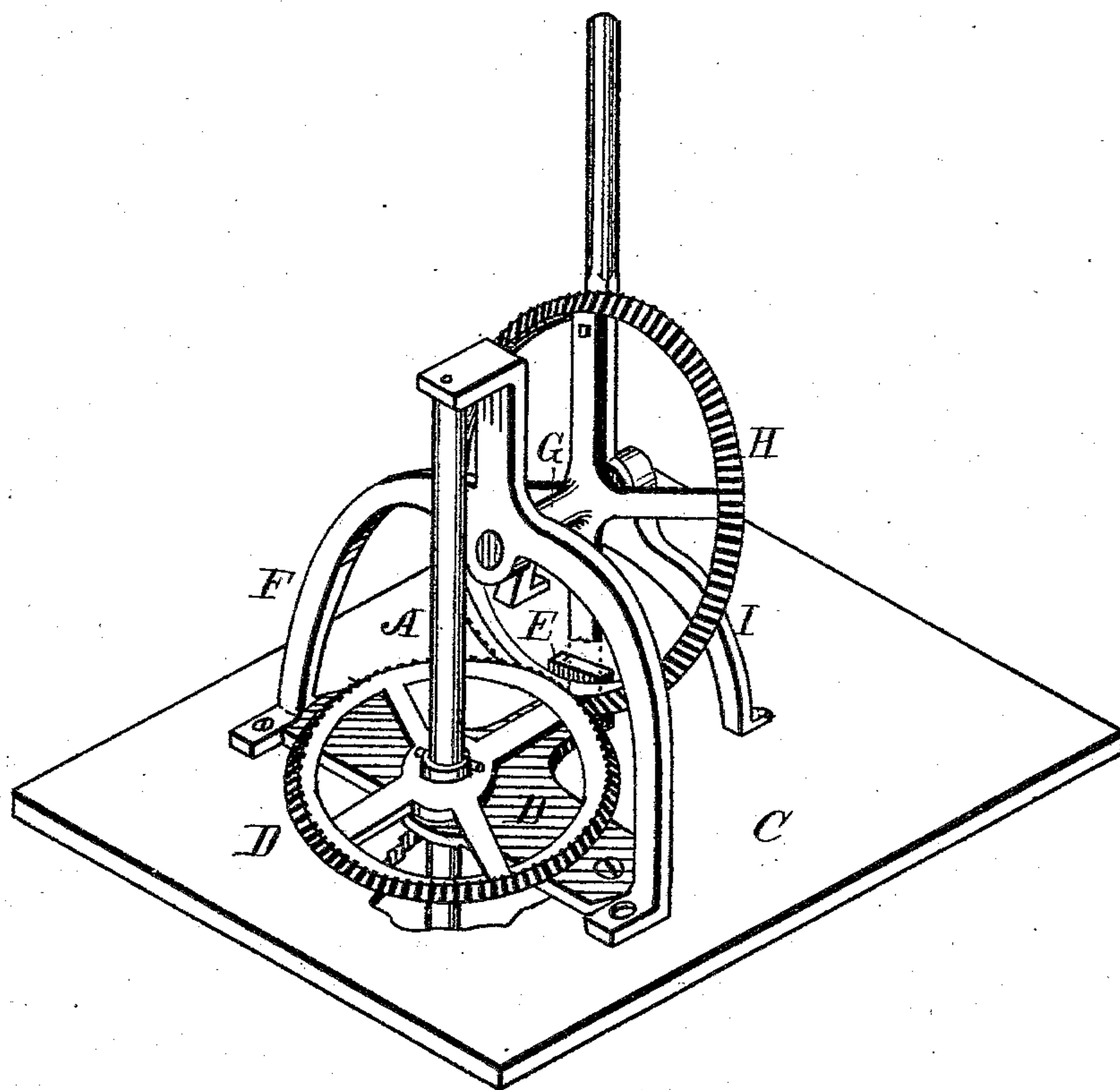
(No Model.)

H. NADERMANN.

MITER WHEEL GUARD AND FRAME.

No. 281,289.

Patented July 17, 1883.



Witnesses:

Robert Kirk
Will Kleime

Inventor:

Henry Nadermann
By J. S. Zerk
Att'y

UNITED STATES PATENT OFFICE.

HENRY NADERMANN, OF NEWPORT, KENTUCKY.

MITER-WHEEL GUARD AND FRAME.

SPECIFICATION forming part of Letters Patent No. 281,289, dated July 17, 1883.

Application filed August 25, 1882. (No model.)

To all whom it may concern:

Be it known that I, HENRY NADERMANN, of Newport, in the county of Campbell and State of Kentucky, have invented a new and useful
5 Improvement in Miter-Wheel Guards and Frames, which improvement is fully set forth in the following specification and accompanying drawing, in which the figure is a perspective elevation of my improved frame and guard
10 for bevel-wheels.

The object of my invention is to provide an improved frame or set of standards which carry the boxing for bevel-gear wheels, whereby the said gear-wheels will be more readily
15 kept in mesh.

In the construction of certain classes of churns, washing-machines, and similar devices, where it is designed to impart a reciprocating circular movement to the shaft which carries
20 the dashers or the beater-arms when miter-wheels are employed, it is exceedingly difficult to constantly keep the said wheels in mesh, owing to the fact that the direction of motion is constantly being reversed. In this invention the vertical shaft A, which carries the clothes-beaters, is journaled into or through a
25 T-shaped plate, B, which is secured centrally to the lid or top C. This shaft carries a miter-wheel, D, at a point above the plate B. The

single limb B' extends out sufficiently far to 30 clear the periphery of the wheel D, and has a lug or upward projection, E. The frame or standards F, which carry at the upper end the vertical shaft A, has also journaled therein, near the upper end, one end of the horizontal shaft G, carrying the miter-wheel H, 35 which meshes with the miter-wheel D and rests against the upward projection or lug E, being held firmly in mesh with said miter-wheel D. The opposite end of the shaft G is 40 journaled to the frame I. The plate B B' and lug E, being cast in one piece, will always retain the miter-wheels in mesh while in operation.

What I claim is—

In frames or standards for reciprocating 45 circular movements, as herein shown, the T-shaped base-plate B B', having on one limb the upturned end or lug E, in combination with the miter-wheels D H, substantially as 50 herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 14th day of August, 1882, in the presence of two witnesses.

HENRY NADERMANN.

Witnesses:

J. S. ZERBE,
FRANK HENRY.