(No Model.)

S. WILLS.

JOURNAL BEARING.

No. 286,982. Patented Oct. 16, 1883.

Fig. 1.

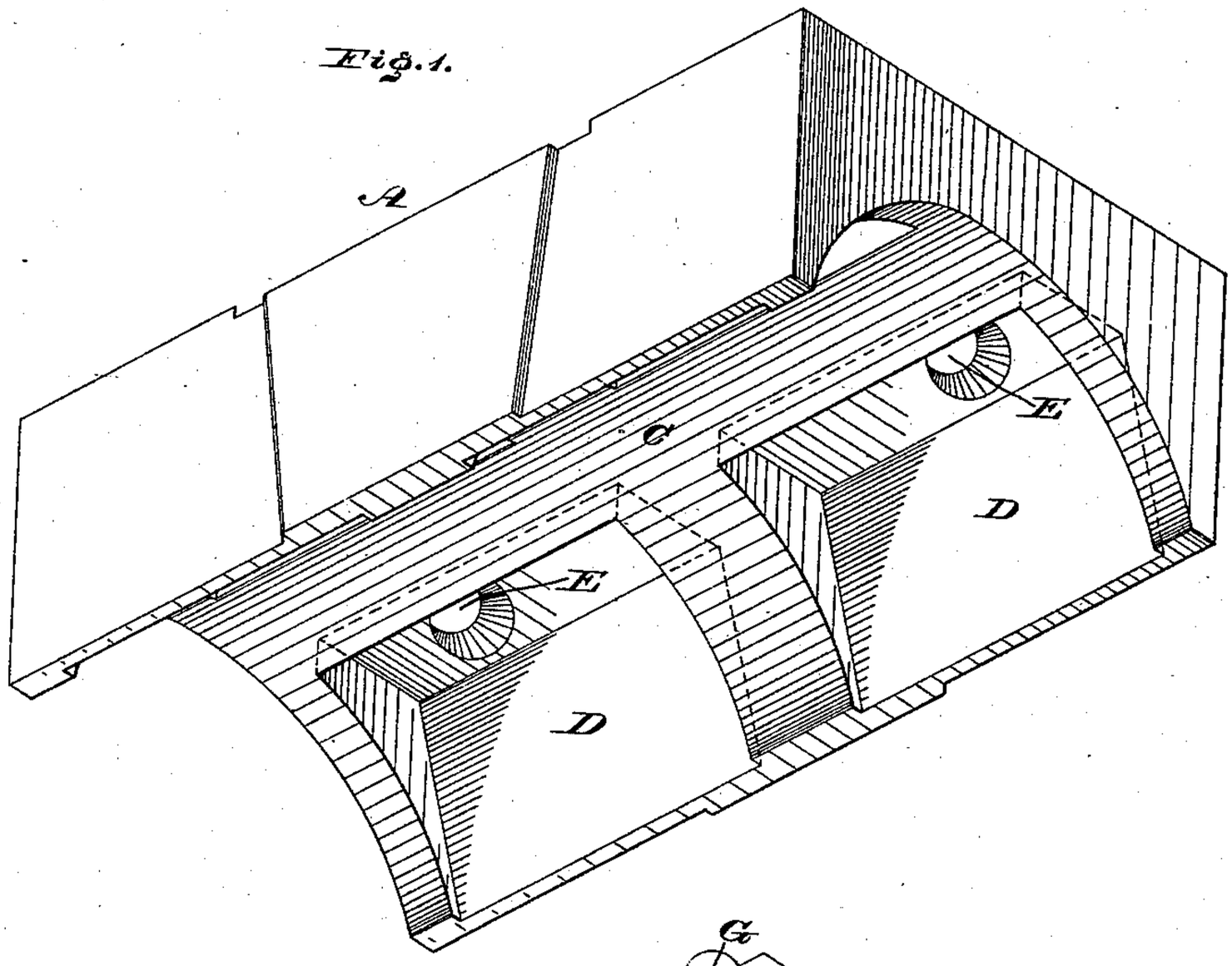


Fig. 2.

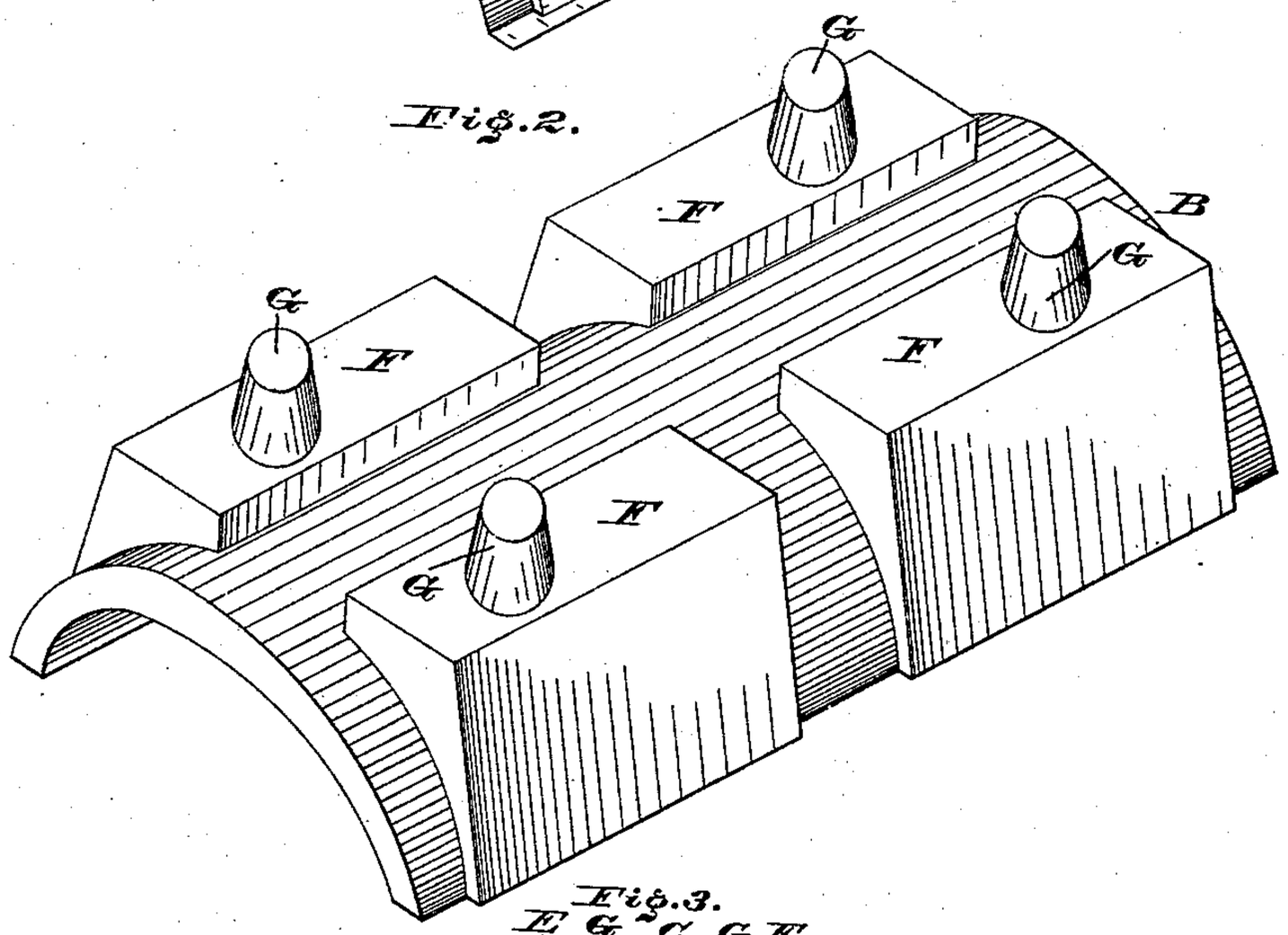
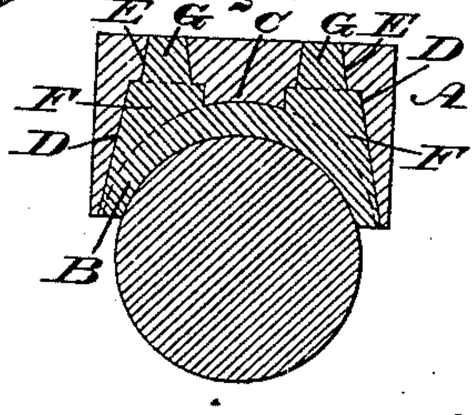


Fig. 3.



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UNITED STATES PATENT OFFICE.

SAMUEL WILLS, OF CAMDEN, NEW JERSEY, ASSIGNOR OF ONE-HALF TO RICHARD CLARK, OF SAME PLACE.

JOURNAL-BEARING.

SPECIFICATION forming part of Letters Patent No. 286,982, dated October 16, 1883.

Application filed August 31, 1883. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL WILLS, a citizen of the United States, residing in the city and county of Camden, State of New Jersey, have invented a new and useful Improvement in Journal-Bearings, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figures 1 and 2 are perspective views of the portions of a journal-bearing embodying my invention. Fig. 3 is a vertical section of the bearing and journal.

Similar letters of reference indicate corresponding parts in the several figures.

My invention consists of certain improvements in journal-bearings, as will be hereinafter fully set forth and definitely claimed.

Referring to the drawings, A represents the box or shell, and B the anti-friction lining thereof. On the inner face of the box is a cross-shaped rib, C, which leaves corner-pockets D, and the walls of the pockets have openings E formed therein. On the back of the lining are projections F, which coincide with the pockets D, and on said projections are studs G, which coincide with the openings E.

In practice I employ a suitable mold and place the box therein. Anti-friction metal is then poured into the mold, thus producing a solid curved lining or face across the box and fillings for the pockets D and openings E. By this construction the lining is held securely in position, and should it be worn down to the rib C the exposed faces of the projections F provide anti-friction metal sufficient for the purpose until the lining is renewed. In order to remove the worn lining, which is properly accomplished before the rib is exposed, any suitable implement is driven against the studs G on the back of the box, thus loosening the lining and displacing it. The box may again be placed in a mold and a fresh lining cast thereon, as is evident.

I prefer to use for the lining pure pig-lead with hardening, which will be found adapted to sustain a weight of several thousand pounds.

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

1. The lining having on its back the projections F and studs G, substantially as and for the purpose set forth.

2. The box with a cross-rib, pockets, and openings, and the lining with projections and studs, combined and operating substantially as and for the purpose set forth.

SAMUEL WILLS.

Witnesses:

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