

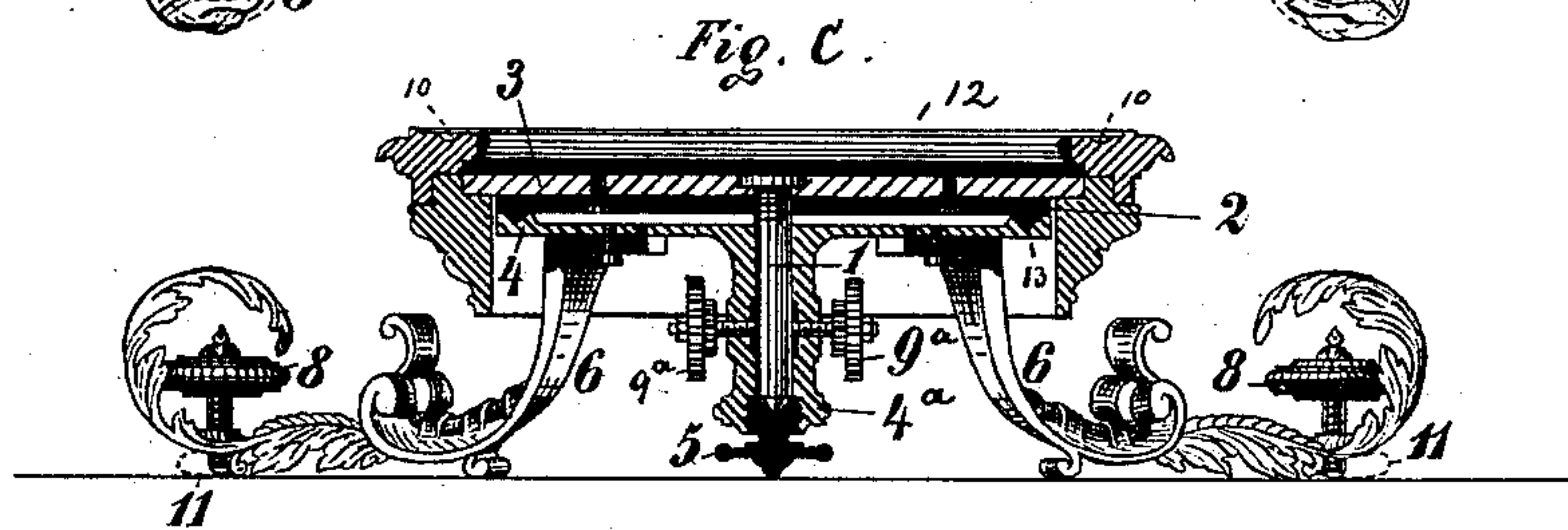
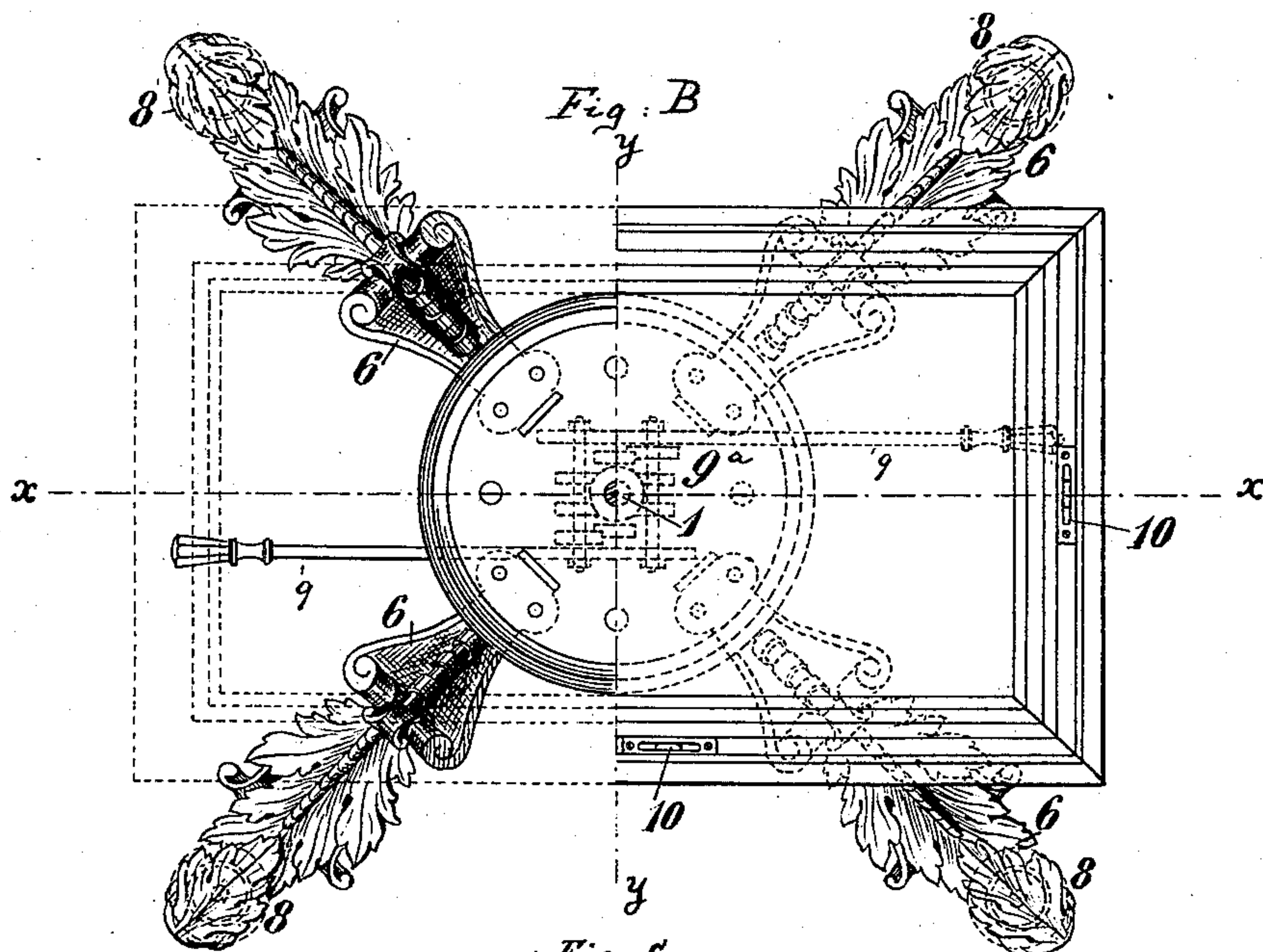
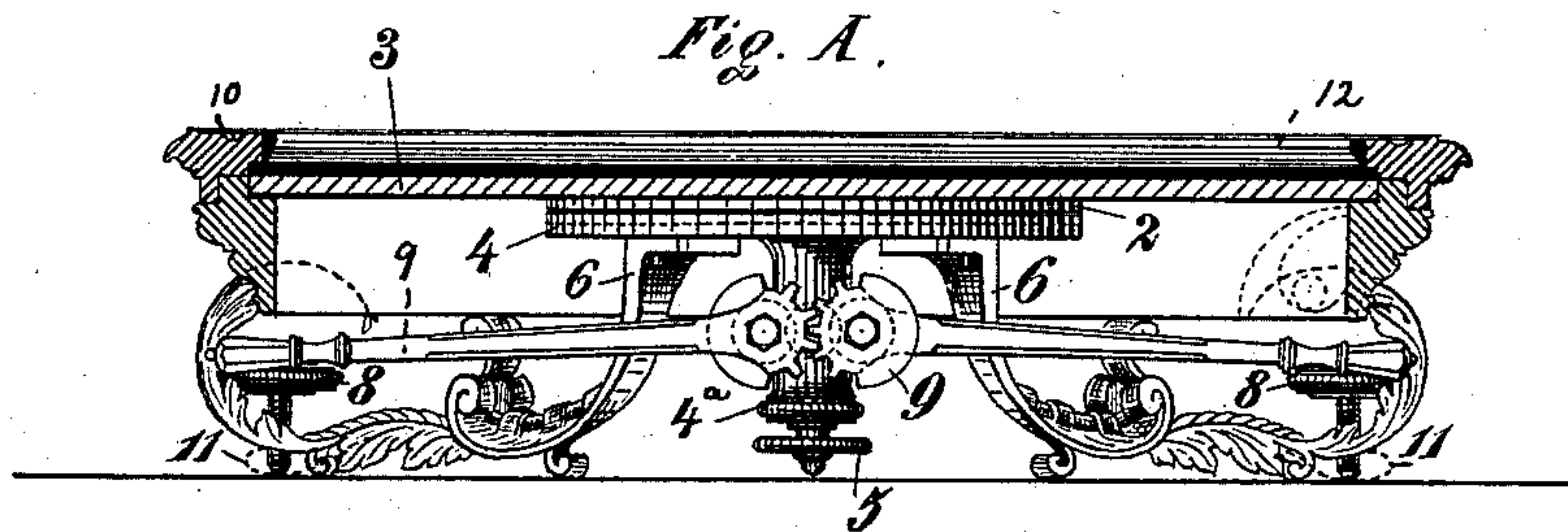
(No Model.)

2 Sheets—Sheet 1.

J. KÖSTNER.
BILLIARD TABLE.

No. 393,910.

Patented Dec. 4, 1888.



Witnesses:

Alfred Jonghman
William Partington.

Inventor:

Josef Köstner
by his attorneys
Roeder & Sierren

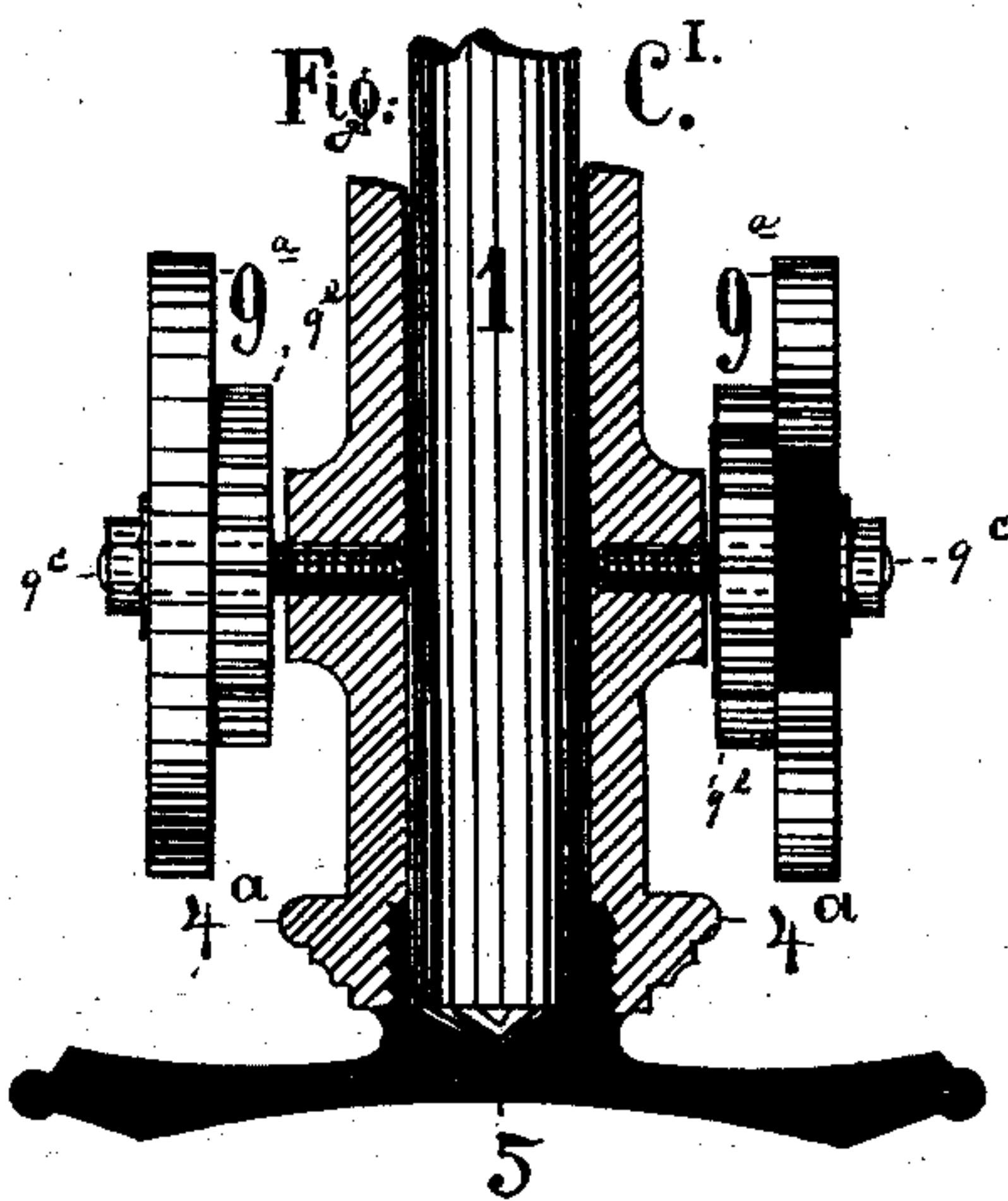
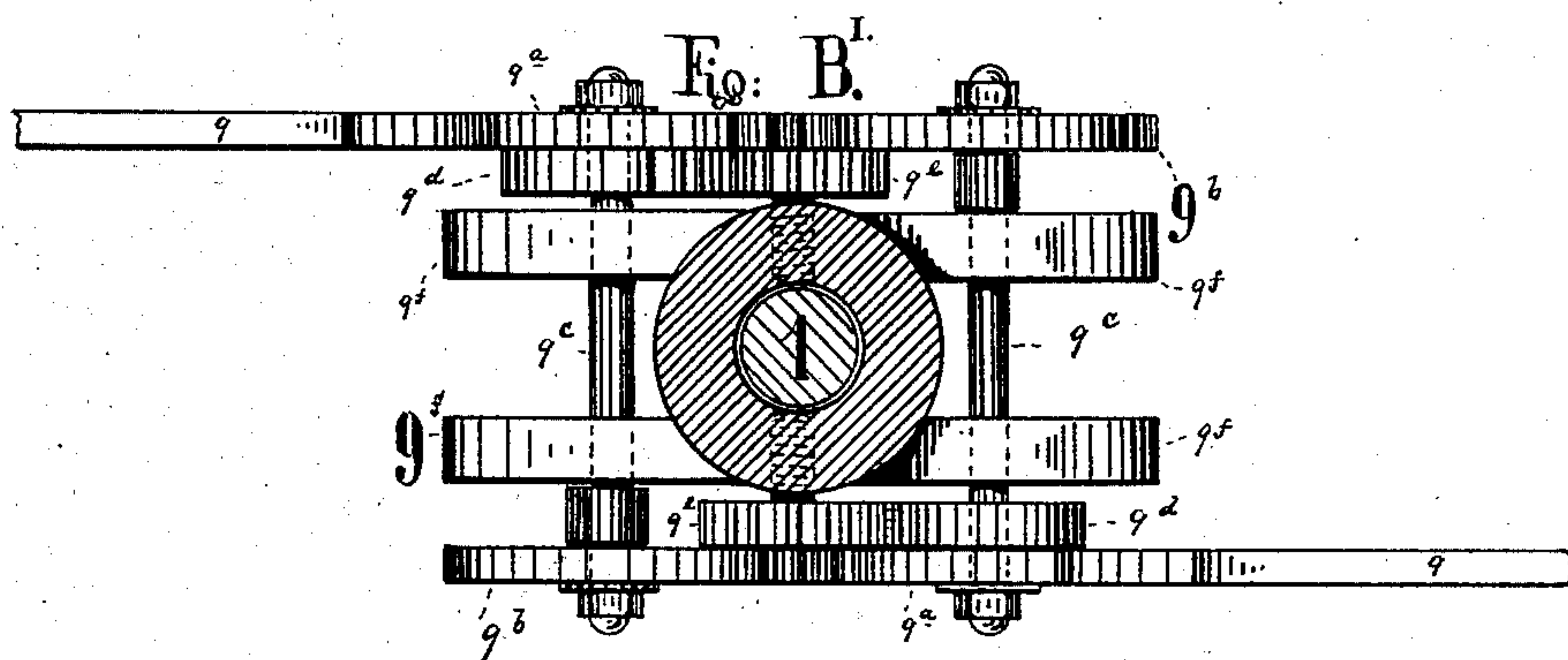
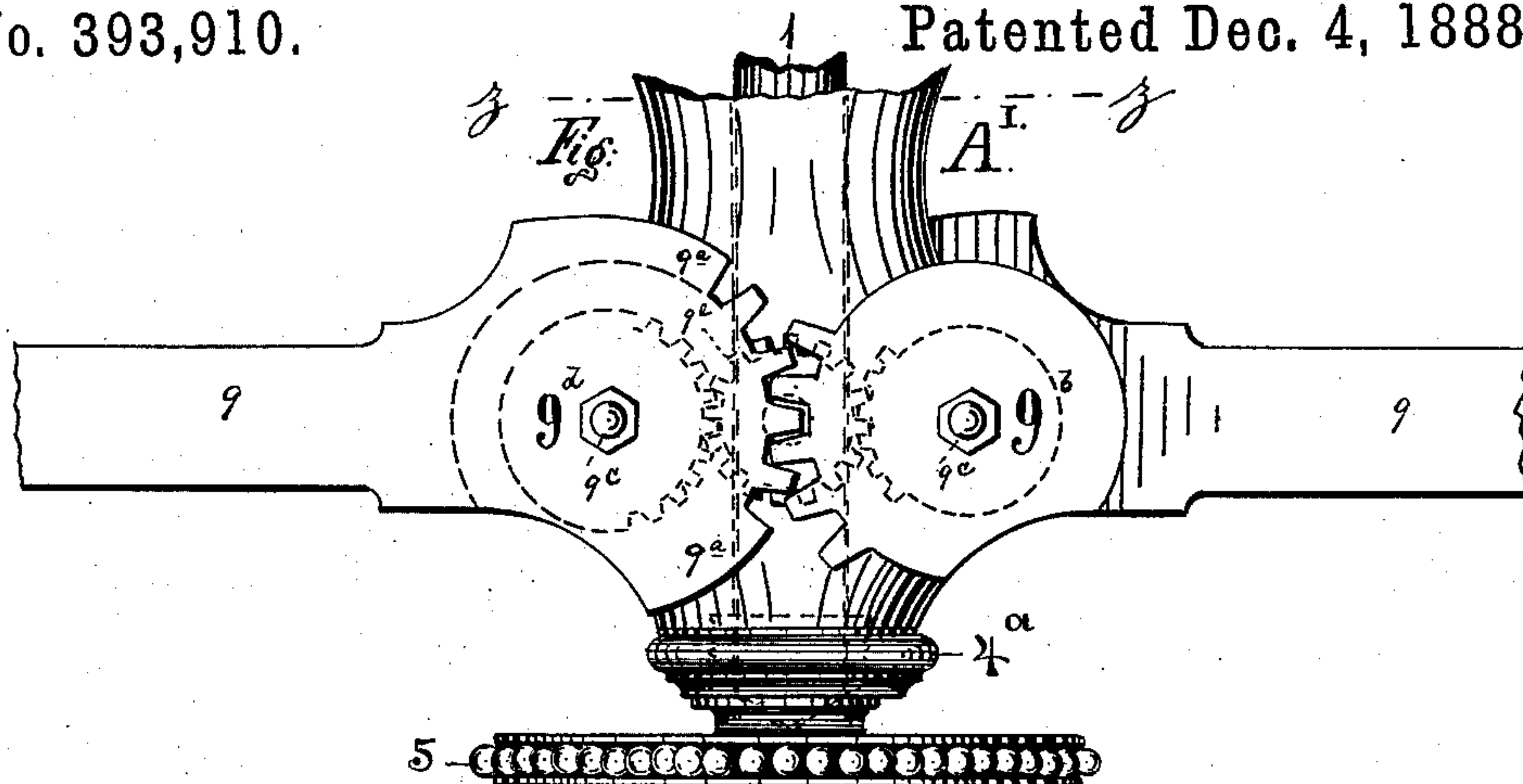
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2 Sheets—Sheet 2.

J. KÖSTNER.
BILLIARD TABLE.

No. 393,910.

Patented Dec. 4, 1888.



Witnesses:
Alfred Jonghmanus,
Walter C. Morris,

Inventor:
J. Köstner,
by his attorneys,
Roeder & Briesen.

UNITED STATES PATENT OFFICE.

JOSEPH KÖSTNER, OF MUNICH, BAVARIA, GERMANY.

BILLIARD-TABLE.

SPECIFICATION forming part of Letters Patent No. 393,910, dated December 4, 1888.

Application filed August 29, 1887. Serial No. 248,117. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH KÖSTNER, of Munich, Germany, have invented a new Improvement in Billiard-Tables, of which the following is a specification.

This invention relates to a billiard-table of reduced size, which is adapted to be placed on a table and which may be revolved, so that the players may remain seated.

The invention consists in the various features of the improvements more fully pointed out in the claim.

In the accompanying drawings, Figure A is a longitudinal section of my improved billiard-table on line $x x$, Fig. B, some of the parts being shown in elevation. Fig. B is a bottom view, partly in horizontal section, of the same. Fig. C is a transverse section, partly in end view, on line $y y$, Fig. B. Fig. A' is a detail side view of the central foot of the billiard; Fig. B', a section on line $z z$, Fig. A'; and Fig. C' a vertical central section, partly in side view, of Fig. A'.

The numeral 12 designates the upper plate of a billiard-table, made of suitable material and provided with a downwardly-projecting central spindle, 1, having a conical point, which engages a central foot, 5. The spindle 1 is connected to plate 12 by means of a base-plate, 3, and it passes through a disk, 2, rigidly secured to the under side of such base-plate. Beneath the disk 2, and disconnected therefrom, is the stationary disk 4, having a downwardly-extending tubular projection, 4^a, for the reception of spindle 1, and screw-tapped at its lower end to engage screw-threaded foot 5. The disk 2 is provided with a circular tongue or rib, 13, that engages a corresponding groove in the disk 4, and thus allows a rotation of disk 2 without permitting its displacement.

To the lower side of disk 4 are secured the

curved feet 6, provided with set-screws 8, by means of which the billiard-table may be leveled. The set-screws 8 are preferably padded with leather, as shown at 11.

9 9 are a pair of hand-levers pivoted to the tubular projections 4^a and provided with toothed segments 9^a, that engage tooth-segments 9^b, placed opposite thereto. Upon the axis 9^c of each hand-lever there is mounted a toothed wheel, 9^d, engaging the toothed head of a clamp-screw, 9^e, bearing against spindle 1. If either of the levers 9 is pressed down or raised, it will rotate wheel 9^d, and thus clamp or release the clamp-screw 9^e. At the same time the toothed segment 9^a will rotate the segment 9^b, which, by means of its axis 9^c, will rotate toothed wheel 9^d at the opposite side of spindle 1. Thus the clamp-screw 9^e at such opposite side of the spindle is also revolved. 9^f are the journals for the axes 9^c.

The billiard-table should be provided with spirit-levels 10, as shown.

I claim as my invention—

The combination of table 12 with the disks 2 4, the latter having tubular extensions 4^a, and with the spindle 1, and with a pair of clamp-screws, 9^e, bearing against said spindle, and with a pair of levers, 9, pivoted to tubular extension 4^a, and having toothed segments 9^a, and with toothed segments 9^b, engaged by said toothed segments 9^a, and with the toothed wheels 9^d, engaging clamp-screws 9^e, all being so constructed that if either of the levers 9 is operated both clamp-screws 9^e will be rotated, substantially as specified.

In witness whereof I hereunto set my hand in presence of two witnesses.

JOSEPH KÖSTNER.

Witnesses:

EDWARD W. MEALEY,
EMIL HENZEL.