

(No Model.)

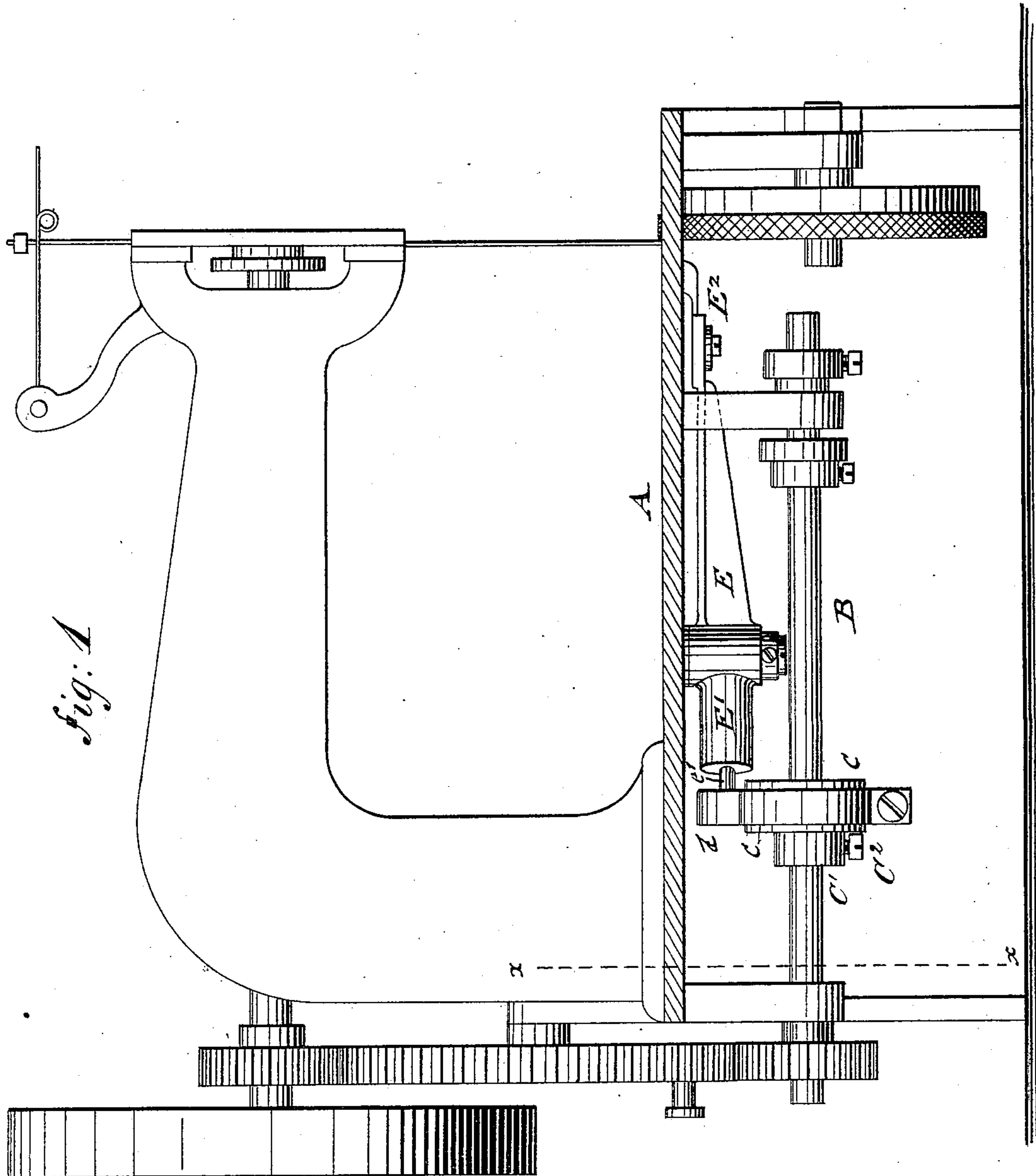
3 Sheets—Sheet 1.

J. A. JOHUM.

SHUTTLE MOVEMENT FOR SEWING MACHINES.

No. 282,729.

Patented Aug. 7, 1883.



WITNESSES:

A. Schehl.
Otto Risch.

INVENTOR

Joseph A. Johum
BY *Paul Grepe.*
ATTORNEY

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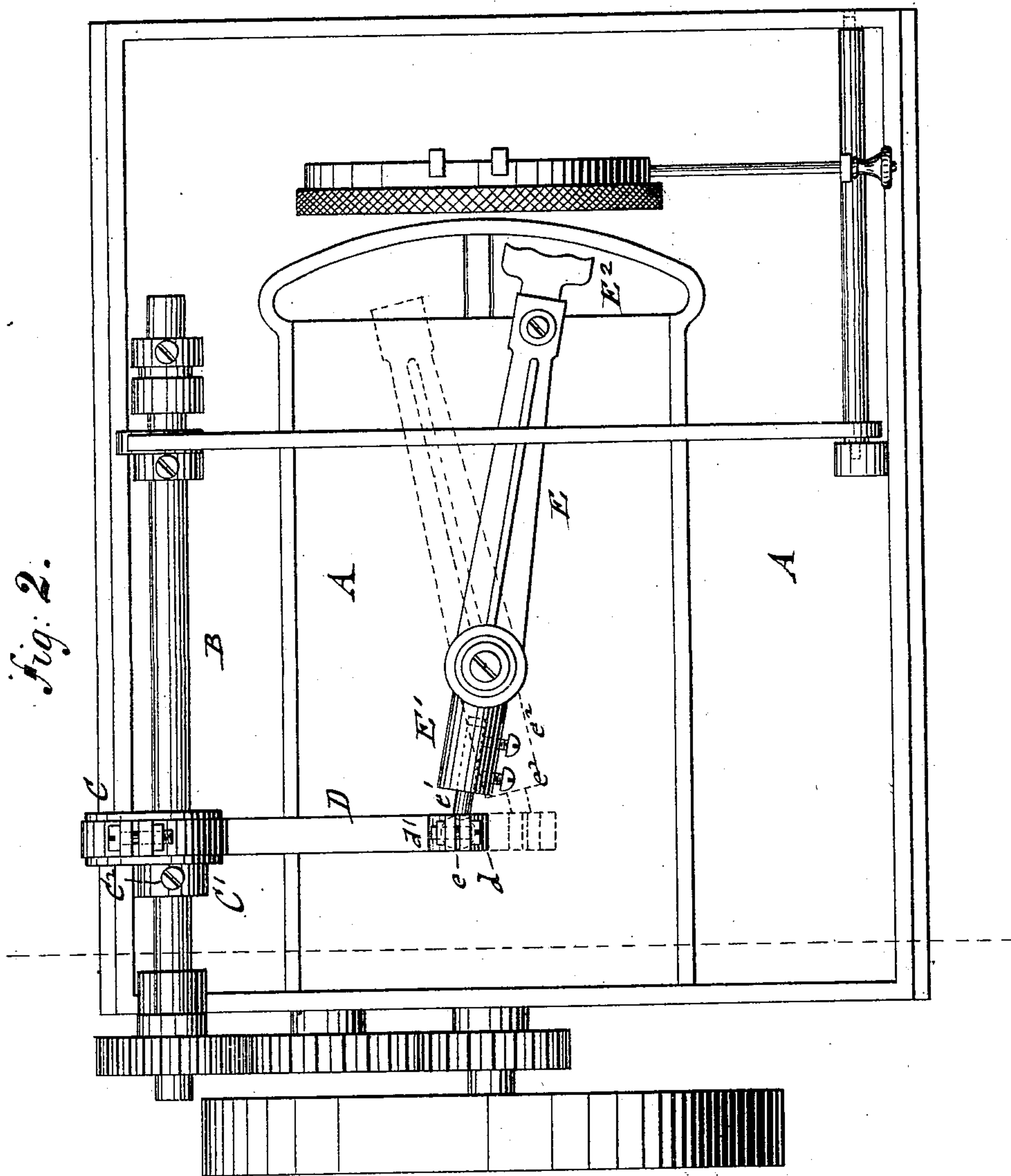
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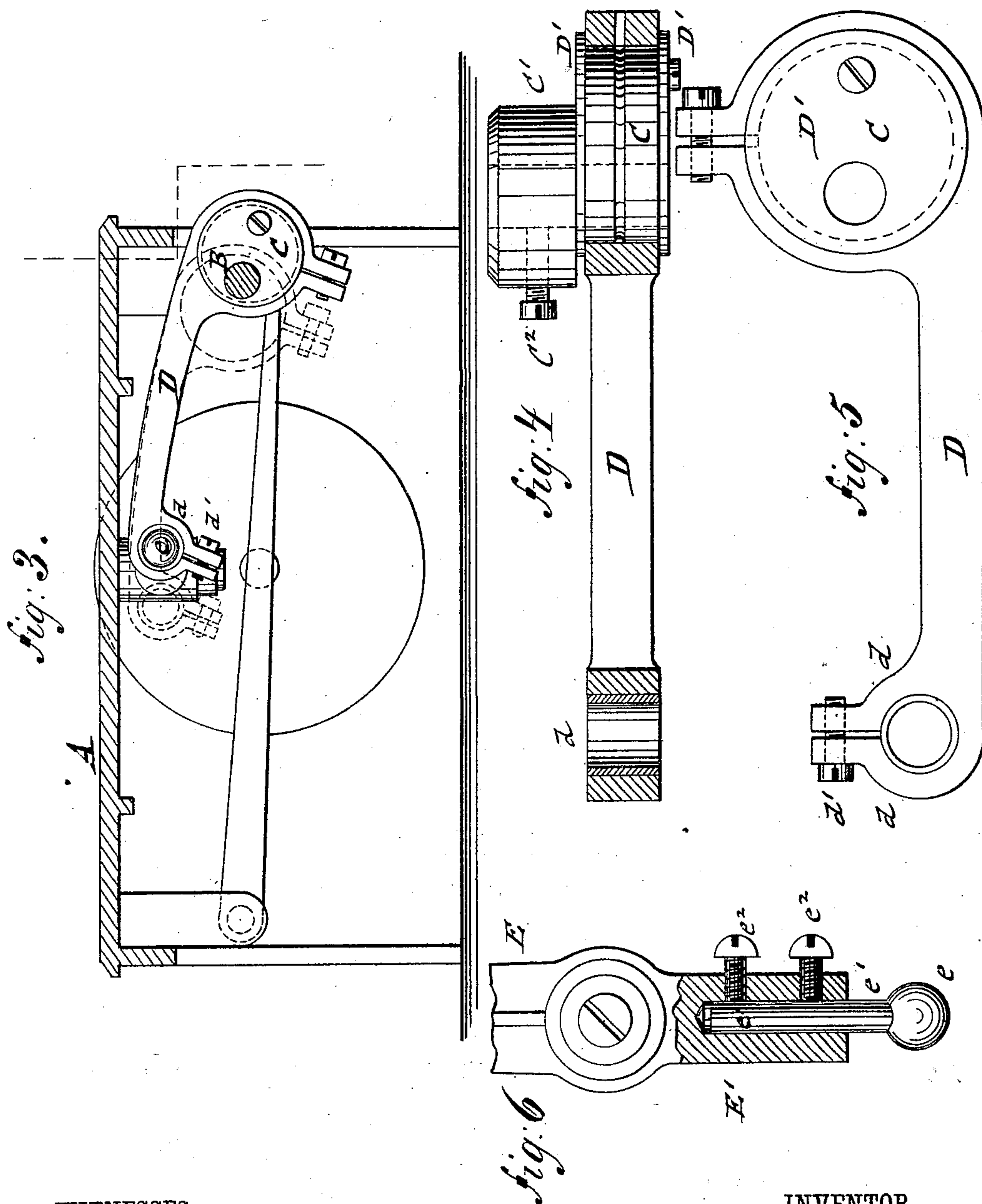
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UNITED STATES PATENT OFFICE.

JOSEPH A. JOHUM, OF NEW YORK, N. Y.

SHUTTLE-MOVEMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 282,729, dated August 7, 1883.

Application filed January 29, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH A. JOHUM, of the city, county, and State of New York, have invented certain new and useful Improvements in Shuttle-Motions for Sewing-Machines, of which the following is a specification.

This invention relates to an improved shuttle-motion for sewing-machines; and the invention consists of the combination, with the lower driving-shaft, of an oscillating extensible arm, pivoted to the under side of the sewing-machine table, provided with a shuttle-carrier at one end and with an adjustable extension-shank at the other end, said shank having a ball designed to form a part of a ball-and-socket joint, an adjustable eccentric on said driving-shaft, and an arm connecting the extensible shank of the oscillating arm with said eccentric. By this construction the throw of the shuttle may be regulated as desired, the extension-shank and eccentric being readily adjustable to correspond with each other.

In the accompanying drawings, Figure 1 represents a vertical longitudinal section of a sewing-machine with my improved shuttle-motion. Fig. 2 is a bottom view of the same; Fig. 3, a vertical transverse section on line *xx*, Fig. 1; and Figs. 4, 5, and 6 are details of the working parts of the same.

Similar letters of reference indicate corresponding parts.

A in the drawings represents the table of a Singer or other sewing-machine for heavy work; B, the lower driving-shaft, which receives its motion by the usual transmitting mechanism from the upper driving-shaft of the machine. An eccentric, C, that is secured by a collar, C', and set-screw C² to the shaft B, imparts motion to an arm, D, that is strapped around the eccentric C, and retained thereon by disk-shaped side plates, D'. The outer end

of the arm D has a split socket, *d*, adjusted by a clamping-screw, *d'*, said socket embracing a ball, *e*, at the end of a shank or stem, *e'*, that is secured by set-screws *e*² to the socket-shaped rear end, E', of an arm, E, that is fulcrumed to the under side of the table A, and provided at its opposite end with a shuttle-carrier, E². The eccentric C is adjustable on the shaft, to correspond with the adjustment of the stem or shank *e*, and by these means the throw of the shuttle is regulated and an easy movement of the machine secured. Oscillating motion is imparted to the arm E of the shuttle-carrier by its ball-and-socket connection with the arm D of the eccentric C, the adjustable ball-shank *e'* admitting the exact setting of the oscillating arm E in the socket of the oscillating arm D, as required for the easy and effective running of the sewing-machine.

The parts form together a shuttle-motion of great simplicity, which is readily adjusted and little liable to wear, so as to be specially adapted for sewing-machines doing heavy work.

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

The combination, substantially as set forth, of a driving-shaft, an oscillating extensible arm provided with a shuttle-carrier at one end and with an extension-shank at the opposite end, an eccentric adjustable on the driving-shaft, and an arm connecting said adjustable eccentric with the extension-shank of said oscillating arm.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

JOSEPH A. JOHUM.

Witnesses:

PAUL GOEPEL,
CARL KARP.