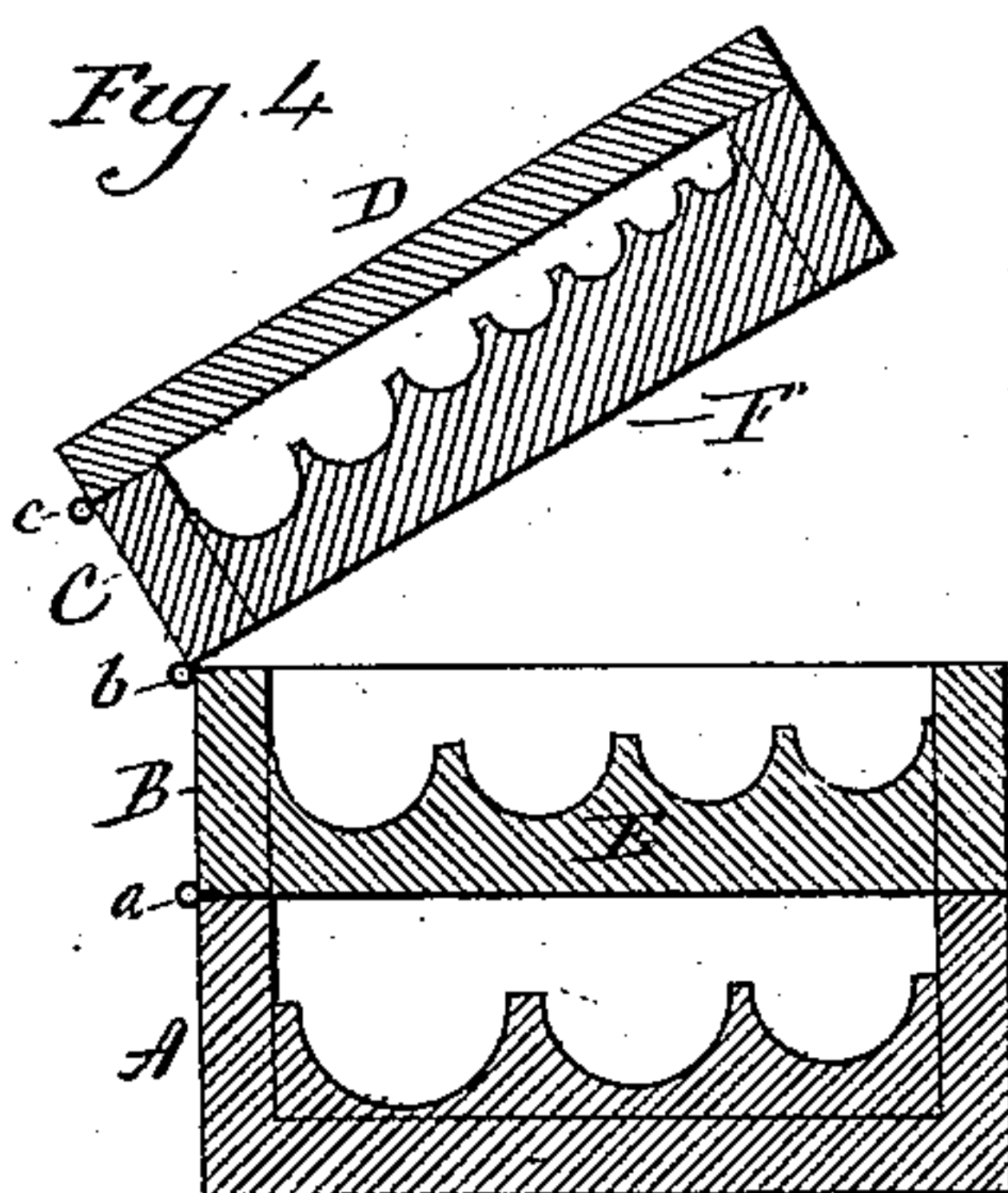
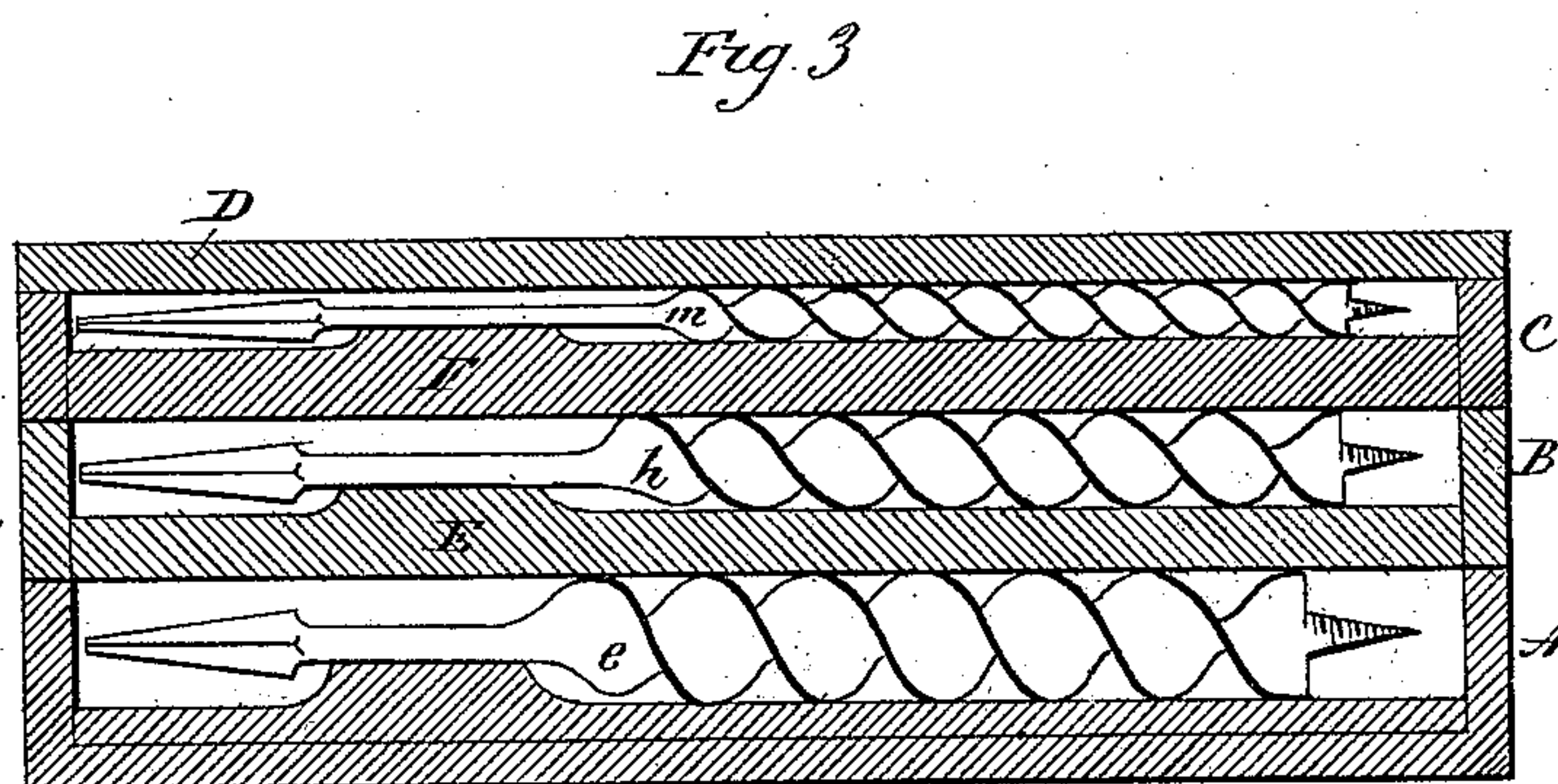
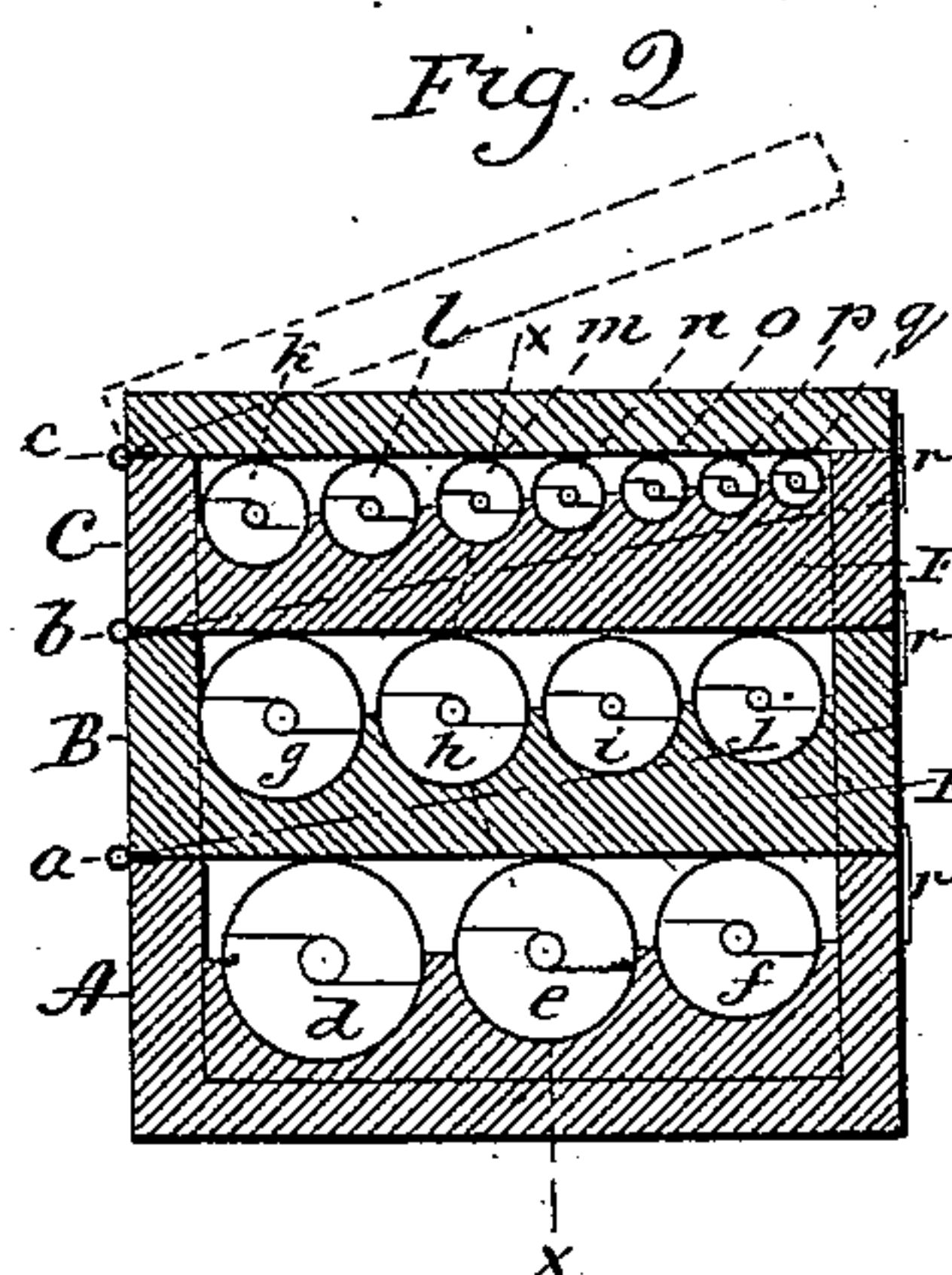
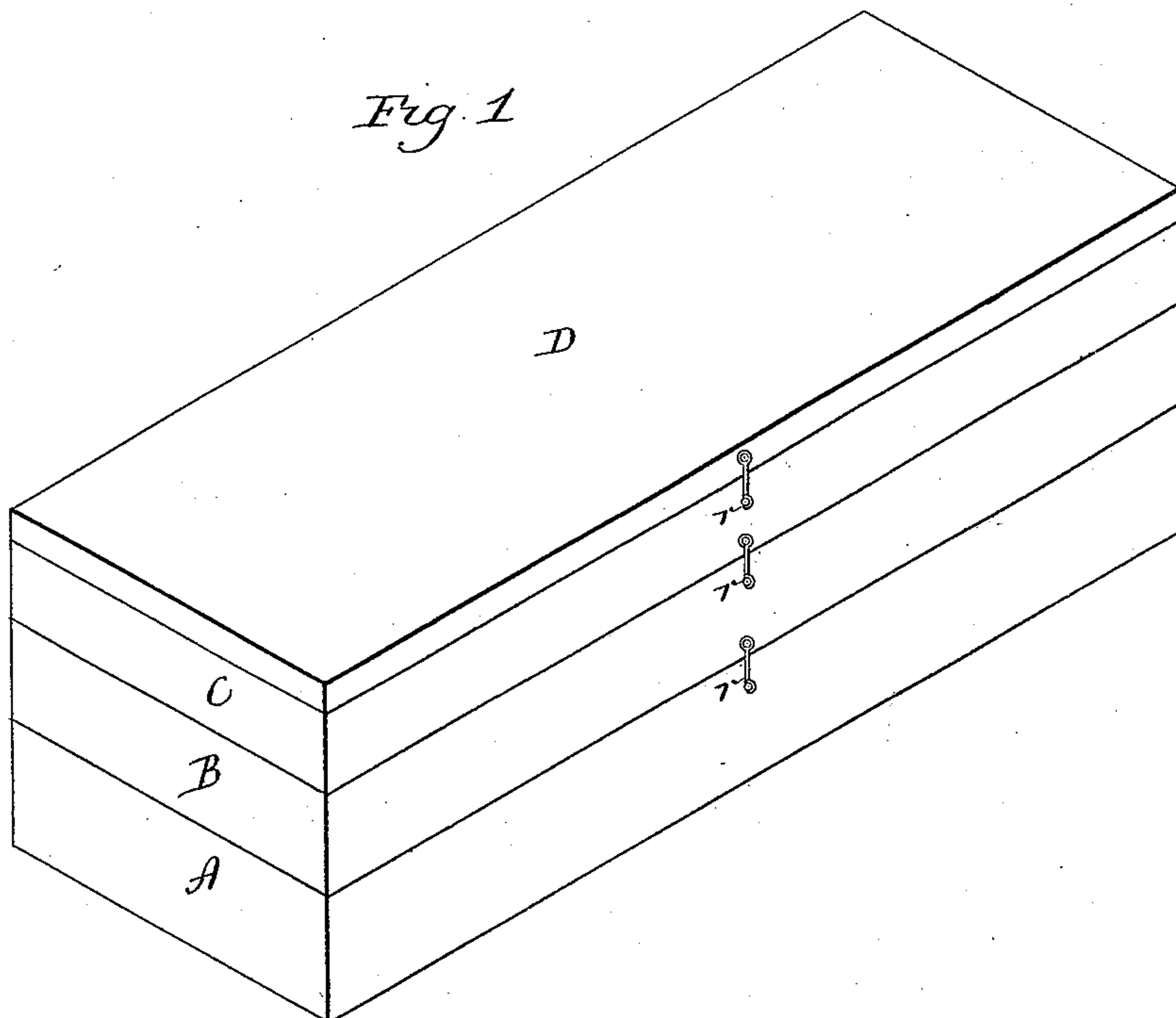


(No Model.)

S. H. JENNINGS.
TOOL BOX.

No. 428,396.

Patented May 20, 1890.



Witnesses
J. H. Shumway
Lillian D. Halsey

Simon H. Jennings
Inventor
Charles Seymour

UNITED STATES PATENT OFFICE.

SIMEON H. JENNINGS, OF DEEP RIVER, CONNECTICUT.

TOOL-BOX.

SPECIFICATION forming part of Letters Patent No. 428,396, dated May 20, 1890.

Application filed April 4, 1890. Serial No. 346,569. (No model.)

To all whom it may concern:

Be it known that I, SIMEON H. JENNINGS, of Deep River, in the county of Middlesex and State of Connecticut, have invented a new Improvement in Packages for Auger-Bits; and I do hereby declare the following, when taken in connection with accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a perspective view of the package closed; Fig. 2, a transverse section of the case, showing the bits therein; Fig. 3, a longitudinal vertical section of the same, cutting through one of the grooves in each section; Fig. 4, a transverse section of the box with the bits removed, and showing the upper section as turned up from the next section below.

This invention relates to an improvement in packages for containing sets of auger-bits, the package being in the form of a box or case, so that the bits may all lie therein side by side. Heretofore these packages have been constructed in the form of a box divided horizontally at the center, the two parts hinged together so as to open flat, each part of the box provided with seats for the bits, the bits being supported therein. Inasmuch as the cover portion of the box is inverted in opening and closing, and as either part may be the cover, according to circumstances, it is necessary to lock every bit in its seat in the box. To accomplish this result some button or clamping device is required.

The object of my invention is the construction of a box in which these locking devices may be avoided, the package made very compact, and easily accessible to all the bits; and it consists in the construction of the box as hereinafter described, and particularly recited in the claim.

In the illustration the box is composed of three sections A, B, and C and a cover D, the section B being hinged to the section A at one edge, as at *a*, and the section C to the section B, preferably at the same edge, as at *b*, and the cover D hinged preferably to the same edge of C, as at *c*, and, as seen in Fig. 2, the division between the parts is in a horizontal plane.

The bottom of each part of the box is lon-

gitudinally grooved, as at *d e f*, &c. These grooves are semicircular in transverse section, as seen in Fig. 2, to form seats for the respective bits, and the diameter of the grooves corresponds to the size of the bit to rest therein, and the grooves vary in depth from the upper edge of the section of the box corresponding to the difference in diameter of the bits resting therein—that is to say, the several grooves in each section, as *d e f*, section A, Fig. 2, are of a depth from the plane of the upper edge of that section corresponding to the diameter of the bits to rest therein, so that the several bits of varying diameter will so rest in the said sections that their upper sides will stand in substantially the plane of the upper edge of that section, and so that the bottom E of the next section above will substantially bear upon those several bits, as seen in Fig. 2, and thus will hold the several bits in that section so firmly in their respective seats as to prevent displacement. In the next section B the grooves are formed in like manner, varying in width according to the varying diameters of the bits, and so that, the several bits of that section resting in their respective grooves, the upper sides of the several bits will in like manner stand in the plane of the bottom of the next section C, and the said section C has its grooves formed in like manner, so that the several bits resting therein will be in the plane of the upper edge, and so that the cover D, when closed, will hold the bits of that section in place, as described for the other sections. These cases are usually prepared for a standard set of bits; but it will be understood that more or less sections may be employed. By this construction the several bits are held in their places without the application of a device within the case for this purpose, and so that when the section containing the bits is opened the bits are free to be removed.

A fastening device, as *r*, is applied to the sections and cover as a means for securing them in the closed position.

The bottoms of the sections are readily formed by making a series of flutes running longitudinally of the bottom of the size and shape required.

I claim—

The herein-described package for auger-

bits, consisting of a case composed of two or more sections divided in a horizontal plane and hinged together, the bottom upon the inside of the several sections grooved longitudinally, the grooves substantially semicircular in transverse section and varying in depth from the plane of the upper edge of the sections according to the variation in the diameter of the bits, and so that, the bits resting

in said section, their upper sides will lie in the said plane of the upper edge of the section, each succeeding section forming the cover for the section below it, substantially as described.

SIMEON H. JENNINGS.

Witnesses:

FRED C. EARLE,

LILLIAN D. KELSEY.