

(No Model.)

G. A. DAVIS.
CHASE FRAME AND TABLE.

No. 506,873.

Patented Oct. 17, 1893.

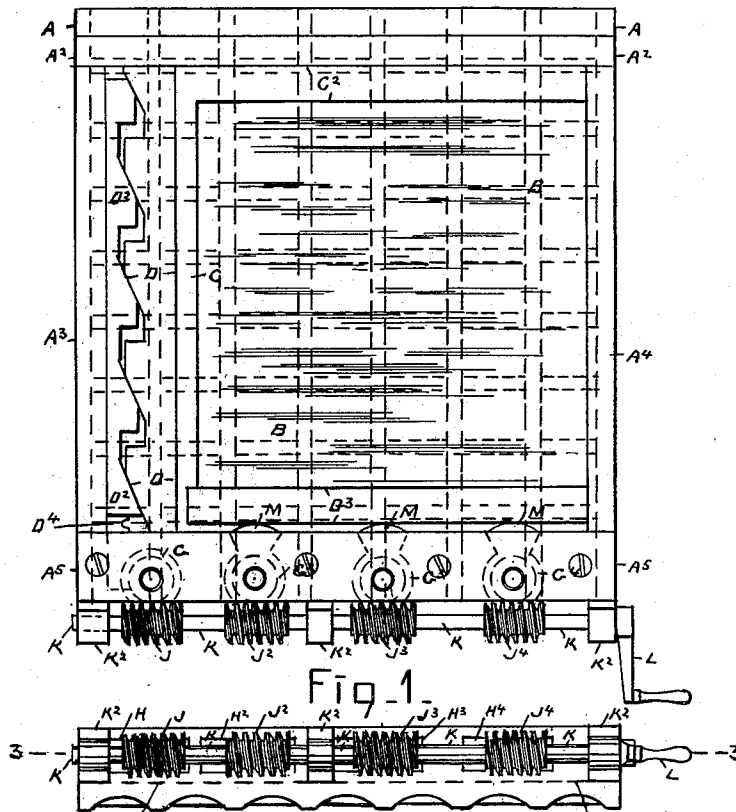


Fig. 1

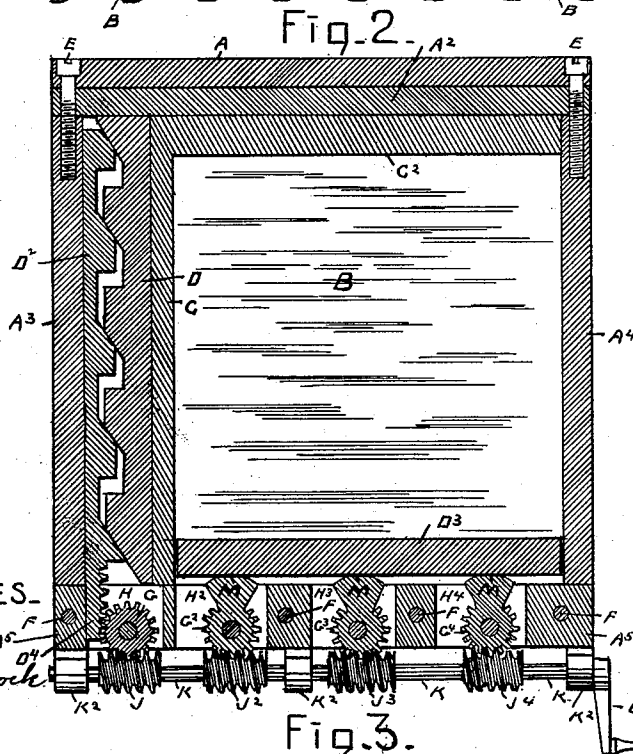


Fig. 2

WITNESSES.

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Fig.3.

UNITED STATES PATENT OFFICE.

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COMBINED CHASE-FRAME AND TABLE.

SPECIFICATION forming part of Letters Patent No. 506,873, dated October 17, 1893.

Application filed October 10, 1890. Serial No. 367,733. (No model.)

To all whom it may concern:

Be it known that I, GEORGE A. DAVIS, a citizen of the United States of America, and a resident of the city of Waltham, in the county of Middlesex and State of Massachusetts, have invented a certain new and useful Improved Combination Chase-Frame and Table, of which the following is a full, clear, and exact description.

This invention in a combined chase-frame and table consists of mechanism for operating the movable side and foot-sticks, all substantially as hereinafter described.

In the drawings, forming part of this specification, Figure 1 is a plan view. Fig. 2 is an elevation at the foot of the table and chase-frame and Fig. 3 is a horizontal section, line 3—3, Fig. 2.

In the drawings, B is a flat table or bed. This table has a flat upper side or face on which are bars A, A² at the top, bars A³, A⁴ at the opposite sides, and a bar A⁵ at the foot. These bars are rigidly attached to the table and they and the table form a chase-frame, to receive a type-form which is shown only in part, that is, its side bar C, and its top-bar C². The bars C, C², are formed integral or otherwise rigidly connected, so that they stand at right angles to each other, whereby the bar C may lie beside the part D of the side-stick D, D². The type form lies, as usual, upon the surface of the table B, Fig. 1, and is surrounded on two sides by the bars C, C² and on the side opposite the bar C², by a foot-stick D³. The bar C² lies beside the part A² of the top bars A, A². The movable side-stick D² together with the movable side-stick D are adapted for the side-stick D to be moved laterally and for the side-stick D² to be moved lengthwise and by said lengthwise movement of the side-stick D² to secure lateral movement of the side-stick D.

The combined chase-frame and table of this invention preferably has its side-bars A³, A⁴ cast in one piece with the table B and its top and foot-bars A, A², A⁵ made separate and attached, as for instance, by screws E, E entered at the ends of the side and top bars to secure the top-bars in position and by

screws F, F entered through the thickness of the foot-bar A⁵ into the table all so that with the top and foot-bars A, A², A⁵ of the table removed, the table can be planed or leveled off from its top to its foot edge between its fixed side-bars A³, A⁴. The lengthwise movable side-stick D² has an extension D⁴ at its foot end and on one side of this extension are cog teeth in position to mesh a horizontal gear-wheel G of a series of gear-wheels G, G², G³, G⁴ severally located in open slots H, H², H³, H⁴ of the foot-bar A⁵ of the chase-frame and table B and having their axes in a common vertical plane parallel with the vertical plane of said foot-bar. Each gear-wheel is journaled in the upper and lower walls of its slot of the foot-bar A⁵ and they severally mesh suitably located but separate worm-gears J, J², J³, J⁴ of a common horizontal shaft K that is located in front of said foot-bar and at and intermediately of its opposite ends arranged to turn in suitable bearing-blocks K² of said foot-bar. The shaft K has a crank handle L at one end for convenience in turning it. Each of the said gear-wheels excepting however that meshing the toothed-rack of the lengthwise moving side-stick D, carries a similar cam edge M and these cams are severally located to bear against the movable foot-stick D³ of the table B whereby on a proper turning of the operating shaft K, the foot-stick is forced evenly forward in a direction against the type-form and the type-form thus bound from top to foot between the top-bar of the chase-frame and the movable foot-stick while at the same time the laterally movable side-stick D because of the then lengthwise movement of its companion side-stick D, is forced laterally against and the type-form thus bound between the laterally movable side-stick D and the side-bar A⁴ of the chase-frame. The release of the type-form obviously is secured by turning the shaft K in a direction opposite to that by which the movable sticks were forced to a bearing on the type-form as has been just explained.

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

In a combined chase-frame and table having lengthwise and lateral moving side-sticks D, D² and a movable foot-stick D³, gear-wheels suitably held and arranged on the foot-bar of the chase-frame and table to be simultaneously rotated and having one of its gear wheels in mesh with the lengthwise movable side-stick and the remainder of its gear-wheels adapted as cams or eccentrics and located to work on the movable foot-stick of the chase-

frame and table, substantially as described, for the purposes specified.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

GEORGE A. DAVIS.

Witnesses:

ALBERT W. BROWN,
ADELBERT F. HANCOCK.