

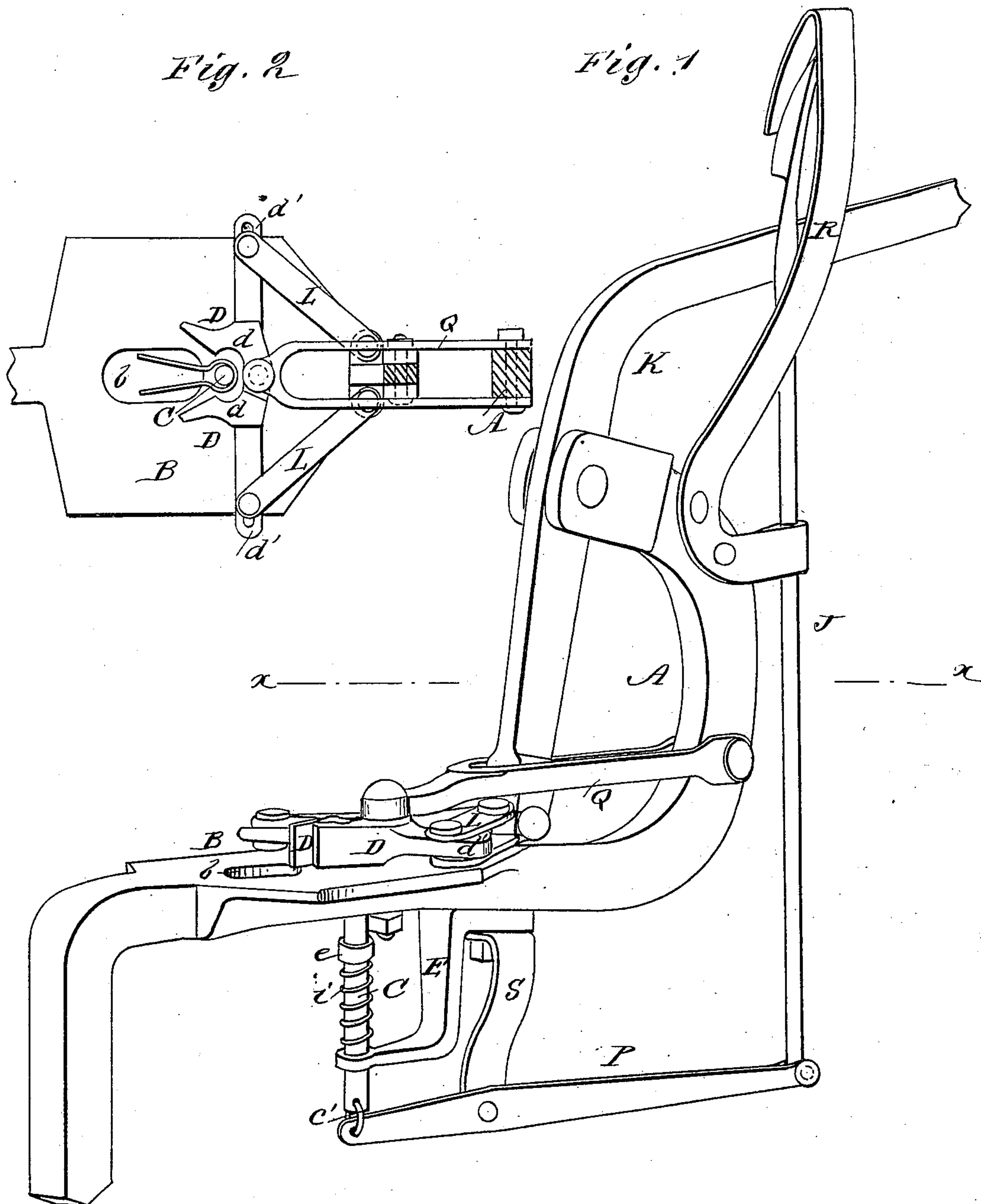
(No Model.)

R. T. KING.

MACHINE FOR MAKING SPLIT KEYS.

No. 246,788.

Patented Sept. 6, 1881.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

ROBERT T. KING, OF COLUMBUS, OHIO.

## MACHINE FOR MAKING SPLIT KEYS.

SPECIFICATION forming part of Letters Patent No. 246,788, dated September 6, 1881.

Application filed May 28, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, ROBERT T. KING, of Columbus, in the county of Franklin and State of Ohio, have invented a new and Improved Machine for Bending Split-Metal Keys, of which the following is a full, clear, and exact description.

My invention consists, principally, of two recessed jaws pivoted upon a table contiguous to a stud or pin, the jaws being operated by a pivoted lever connected with the lateral ends of said jaws by means of links; also, of lever mechanism whereby the completed key is caused to drop out of the way of the next blank; and also of the construction and arrangement of parts, as hereinafter fully described.

In the accompanying drawings, Figure 1 is a perspective view of my invention, and Fig. 2 is a plan view of the table and jaws, the frame and lever being broken away at *x x* of Fig. 1.

Similar letters of reference indicate corresponding parts.

The table B is preferably formed integral with the S-shaped bar or frame A, and is provided in front of the jaws with the opening *b*, through which the completed key drops. Just in rear of the opening *b* is placed the pin or stud *a*, around which the keys are bent by the jaws D D, which jaws are so pivoted to the table that the curved recesses *d d* thereof will, when the jaws are closed, surround the pin or stud. The jaws D D are formed with the lateral arms *d' d'*, to which the forward ends of the links L L are secured. The other ends of these links are hinged to the lower end of the main lever K, which is fulcrumed in the upturned end of the bar A of the frame, so that when the long arm of the lever is raised the short or lower arm thereof has a rearward movement, which causes the jaws to be opened ready for the reception of the blanks, which are to be placed between the faces of the jaws and the stud or pin, and upon the reverse or downward movement of the lever the jaws are brought forcibly together, causing the blanks to be bent into the form shown in Fig. 2.

The stud or pin around which the blanks are bent may be stationary in or upon the table; but in order to cause the keys to drop out of the way from between the jaws as the keys are completed I form the stud of a separate

sliding bolt, C, the upper end of which passes up through a suitable hole in the table, and it is supported normally in position for forming the keys by the spring *i*, which is placed upon the bolt between the collar *c* and the bracket E, which latter is bolted in proper position to the bottom of the table. The lower end of the bolt is attached by the link *c'* to the forward end of the lever P, so that when the main lever K is raised the upper side of it, coming against the head of the rod J, which is connected with the lever P, causes the stud to be drawn down, thus permitting the keys to drop through the slot *b* in the table. The rod J is guided and guarded by the bent plate R, riveted to the side of the bar A, as shown in the drawings, and the lever P is pivoted to the arm S, so that the end thereof will come immediately below the lower end of the bolt.

The lower end of the main lever K moves in a way formed by the forked tie-rod or plate Q, the forks of which are bolted to the sides of the main bar A, while the forward end of it is bolted to the table by the same bolt upon which the jaws are pivoted.

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

1. The table B, formed with the opening *b*, in combination with the movable pin or stud C, having spring *i*, and connected to lever P and rod J, and the recessed jaws D D, connected to bent bar A by links L, substantially as and for the purposes set forth.

2. The movable pin or stud C, supported in brackets E, and having spring *i*, in combination with the levers P and K, rod J, slotted table B, and recessed jaws D D, substantially as and for the purposes set forth.

3. The machine for forming spring metal keys herein shown and described, consisting of the bent bar or frame A, formed with the table B, the recessed pivoted jaws D D, main lever K, and stud or pin C, the lever K being fulcrumed in the upper end of the bar A, substantially as shown and described.

ROBERT T. KING.

Witnesses:

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