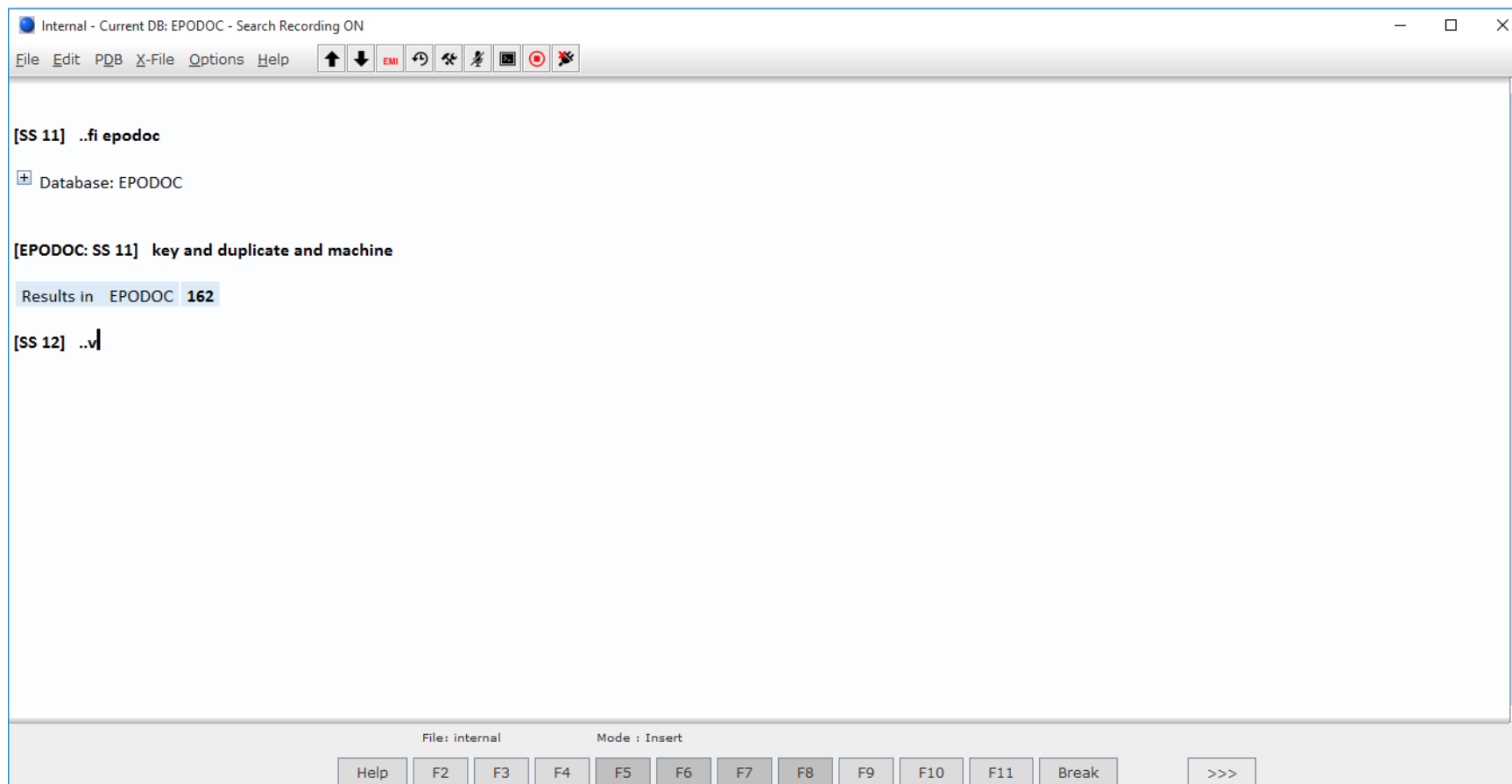




Viewer - key: PrS 1/2 - not available=0

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US4657448

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PN - US4657448 A 19870414

TI - Pantograph angular bitted key cutting machine

AB - A pantograph angular bitted key cutting machine is provided which facilitates the replication of angular bitted keys, commonly known as MEDECO TM keys by automatically replicating the position, depth and angularity of each tooth. Accurate angularity, the most difficult of the variables to replicate, is assured by ensuring that the center of rotation of the angular tooth wall is perpendicular to the radius of the cutting head. Two major embodiments are provided. In the first, the cutting head and the guide which aligns with the original key are fixed in the same line. In the second embodiment the guide and the original key are placed directly behind the cutting head and the blank duplicate key.

CCI - B23C3/35

CCA - Y10T409/300952

UC - 76/110; 409/81

PA - ALEXANDER ARTHUR

IN - ALEXANDER ARTHUR [US]

CT - || STSE (A)

US3457831 A 19690729 [] (ILCO CORP);

US3457832 A 19690729 [] (ILCO CORP);

US3625111 A 19711207 [] (COLE NATIONAL CORP);

US3807276 A 19740430 [] (OLIVER R);

US4051748 A 19771004 [] (UNICAN SECURITY SYSTEMS);

US4132151 A 19790102 [] (NEIMAN SA);

DE2462467 A1 19770721 [] (EILEBRECHT DIETMAR, et al);

FR2448404 A1 19800905 [] (FRANCE H K)

AP - US19850728695 19850429

PR - US19850728695 19850429

DT - *, Rep

US4657448

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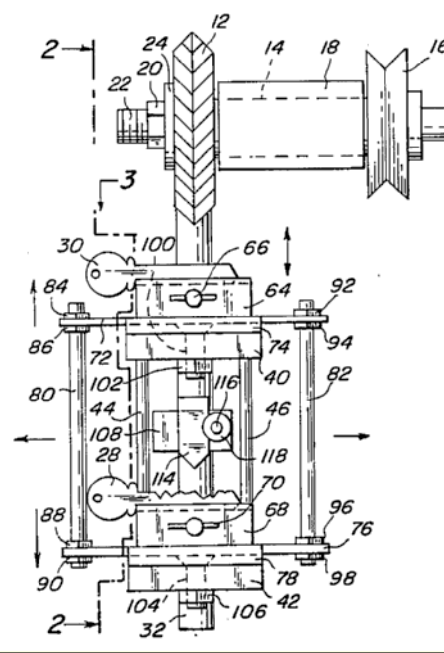
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JP2000354907

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Fig

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Amnd

PN - JP2000354907 A 20001226

TI - CUTTING MACHINE OF DUPLICATE KEY

AB - **PROBLEM TO BE SOLVED:** To always set optimal clamping force by appropriately strongly clamping the knob of a fixture without adjusting the clamping force.
SOLUTION: On the upper surface of a moving table 5 of a table device 2, a first fixture 6 to fix a key material, and a second fixture 7 to fix a key model are installed. Each of the fixtures 6, 7 is provided with a screw axis 41 vertically mounted on the moving table 5, a pair of clamping plates 22, 23 vertically arranged on the screw axis 41 so as to face each other, and a knob 24 which fixes the key model or the key material by applying clamping force between the clamping plates 22, 23 corresponding to a screwing amount against the screw axis 41. An idling mechanism 80 which idles the knob 24 against the screw axis when the clamping force exceeds a set value is incorporated in the inside of the knob 24.

FI - B23C3/35

FT - 3C022/EE08

PA - CLOVER MFG CO LTD

IN - NAKAI HATSUO

AP - JP19990165272 19990611

PR - JP19990165272 19990611

DT - I

JP2000354907

1Pge

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Fig

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History 309

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PrS 2

Drawer 1

Drawer 2

Drawer 3

Drawer 4

Drawer 5

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