Title (en)

ELECTRONICALLY-CONTROLLED APPARATUS FOR CUTTING AND MACHINING NATURAL OR SYNTHETIC STONE PLATES OR GLASS PLATES

Title (de)

ELEKTRONISCH GESTEUERTE VORRICHTUNG ZUM SCHNEIDEN UND BEARBEITEN VON NATÜRLICHEN ODER SYNTHETISCHEN STEINPLATTEN ODER GLASPLATTEN

Title (fr)

APPAREIL À COMMANDE ÉLECTRONIQUE POUR COUPER ET USINER DES PLAQUES DE PIERRE NATURELLE OU SYNTHÉTIQUE OU DES PLAQUES DE VERRE

Publication

EP 3658345 A1 20200603 (EN)

Application

EP 18753467 A 20180724

Priority

- IT 201700085377 A 20170726
- IB 2018055493 W 20180724

Abstract (en)

[origin: WO2019021172A1] An electronically-controlled multi-functional work center can be used to machine plates of natural or synthetic stone or glass plates. The work center is configured to perform both the cutting operations on a plate (L1, L2) and the machining operations on the edges of the plate portions (L1 A, L1 B, L2A, L2B) obtained as a result of the cutting operation, without the need to arrange a sacrificial plane above the machine top to perform the cutting operation. The machine top (3) is provided with a plurality of supporting and holding units (8) mounted movable in a horizontal direction Y on respective support cross-members (9), which in turn are mounted movable on the machine top (3) in a direction X perpendicular to the direction Y. The electronic control unit (E) of the work center positions a plurality of supporting and holding units (8) selected to receive a plate (L1, L2) to be cut in such a way as to maintain them all on both sides of the cutting line (T). After performing a cutting operation, the plate portions (L1 A, L1 B, L2A, L2B), which have been subdivided from said plate (L1, L2), are separated by a movement along said second horizontal direction (X) of the cross-members (9) carrying some of said selected units (8) and/or a movement of at least some of said selected units along said first horizontal direction (Y). In this way, the machining head (7) of the work center can carry out the machining of the edges of the aforesaid plate portions (L1 A, L1 B, L2A, L2B) on the same machine top (3). In a variant, the supporting and holding units (8) are also provided with a vertical movement, which can be used to separate the cut plate portions.

IPC 8 full level

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CPC (source: EP)

B28D 1/003 (2013.01); **B28D 1/043** (2013.01); **B28D 7/005** (2013.01); **B28D 7/046** (2013.01)

Citation (search report)

See references of WO 2019021172A1

Cited by

EP4257319A1; IT202200006983A1; EP4273642A1; IT202200009287A1; EP4257317A1; IT202200006992A1

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