

Title (en)

METHOD FOR PIERCING OPTICAL GLASSES WITH THE AID OF A DIGITALLY CONTROLLED DRILL AND DEVICE FOR CARRYING OUT SAID METHOD .

Title (de)

VERFAHREN ZUM DURCHSTECHEN VON OPTISCHEN GLÄSERN MIT HILFE EINES DIGITAL GESTEUERTEN BOHRERS UND VORRICHTUNG ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)

PROCÉDÉ DE PERÇAGE DE VERRES OPTIQUES À L'AIDE D'UNE PERCEUSE À COMMANDE NUMÉRIQUE, ET DISPOSITIF DE MISE EN OEUVRE DUDIT PROCÉDÉ.

Publication

EP 1689569 B1 20090520 (FR)

Application

EP 04805475 A 20041118

Priority

- FR 2004002938 W 20041118
- FR 0314183 A 20031203

Abstract (en)

[origin: US2006050237A1] The present invention relates to a method and apparatus for drilling holes in lenses for making "rimless and pierced-lens" spectacles. According to the invention, the apparatus comprises: a bed (11) carrying a numerically-controlled drill (12) whose drill tool (15) is set on a vertical axis; a reference pointer (30, 33) mounted on the bed (11) to be movable between an active position in which it bears against a lens and a retracted position in which it leaves the lens clear; and a lens support (50) arranged to hold the lens (V) in a substantially horizontal plane, said support resting on a surface (20) that is secured to or integral with the above-mentioned bed (11) while the position of said support can be held stationary relative to said surface. The lens support (50) is moved to bring a reference point that is pre-marked on the lens (V) in abutment against the reference pointer, whereupon the lens is held stationary in that position and the reference pointer is retracted to enable the drill tool to perform a pre-programmed machining sequence.

IPC 8 full level

B28D 1/14 (2006.01); **B23B 39/12** (2006.01); **G02C 7/02** (2006.01)

CPC (source: EP US)

B28D 1/143 (2013.01 - EP US); **Y10T 408/03** (2015.01 - EP US); **Y10T 408/561** (2015.01 - EP US); **Y10T 408/5617** (2015.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

US 2006050237 A1 20060309; US 7377729 B2 20080527; AT E431773 T1 20090615; CA 2508886 A1 20050603; CA 2508886 C 20091229; DE 602004021195 D1 20090702; EP 1689569 A1 20060816; EP 1689569 B1 20090520; FR 2863189 A1 20050610; FR 2863189 B1 20060310; JP 2007515671 A 20070614; JP 4327857 B2 20090909; WO 2005065907 A1 20050721

DOCDB simple family (application)

US 54128205 A 20050701; AT 04805475 T 20041118; CA 2508886 A 20041118; DE 602004021195 T 20041118; EP 04805475 A 20041118; FR 0314183 A 20031203; FR 2004002938 W 20041118; JP 2006541967 A 20041118