

Title (en)
Breaking apparatus and breaking method

Title (de)
Brechvorrichtung und Brechverfahren

Title (fr)
Appareil de cassage et procédé de cassage

Publication
EP 2255939 A3 20111019 (EN)

Application
EP 10164119 A 20100527

Priority
JP 2009130454 A 20090529

Abstract (en)
[origin: EP2255939A2] A substrate is held on a table 22, and the substrate is caused to project beyond a lateral side of the table 22 and is positioned by a positioning section 30. Then, that part of the substrate 23 which is located on the table is locked in place by a clamping section 40. Subsequently the substrate is broken along a scribing line, with its projecting part kept pressed from above, by using a breaking unit 50. In this way, a substrate of even smaller size can be precisely broken with ease under uniform application of pressure.

IPC 8 full level
B28D 1/22 (2006.01); **B28D 7/04** (2006.01)

CPC (source: EP)
B28D 1/225 (2013.01); **B28D 7/04** (2013.01)

Citation (search report)
• [A] EP 1604794 A1 20051214 - MITSUBOSHI DIAMOND IND CO LTD [JP]
• [A] EP 1666221 A1 20060607 - MITSUBOSHI DIAMOND IND CO LTD [JP]
• [A] EP 1386891 A1 20040204 - MITSUBOSHI DIAMOND IND CO LTD [JP]

Cited by
EP3041114A4; US9754719B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)
BA ME RS

DOCDB simple family (publication)
EP 2255939 A2 20101201; **EP 2255939 A3 20111019**; CN 101898390 A 20101201; CN 101898390 B 20150204; JP 2010274573 A 20101209; JP 5777849 B2 20150909; KR 101123618 B1 20120322; KR 20100129222 A 20101208; TW 201107099 A 201110301; TW I385064 B 20130211

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EP 10164119 A 20100527; CN 201010189096 A 20100526; JP 2009130454 A 20090529; KR 20100050123 A 20100528; TW 99114279 A 20100504