

Title (en)

Grinding wheel for grinding edges of glass substrates and method of manufacturing of the same

Title (de)

Schleifscheibe zum Schleifen der Kanten von Glassubstraten und ihr Verfahren zur Herstellung

Title (fr)

Meule pour meuler les bords des substrats de verre et procédé de fabrication de celle-ci

Publication

EP 2671677 A3 20171108 (EN)

Application

EP 13002114 A 20130422

Priority

KR 20120060791 A 20120607

Abstract (en)

[origin: EP2671677A2] The present invention discloses a wheel (100) for grinding edge of a glass substrate and method of manufacturing of the same that does not require profiling work and improves grinding speeds by stabilizing quality of processed edge with uniformly arranged abrasive particles (21) and adjusting exposure degree of abrasive particles (21). A metal binder (23) is applied to a groove (12) along the centre part of the grinding face forming the circumference of the disk and the abrasive particles are partially buried into the metal binder (23). The plurality of abrasive particles (21) are arranged at the crossing points of columns and rows with regular intervals. For this, a pattern plate (30) with holes (31) is used at the crossing points of columns and rows with regular intervals on the metal binder (23).

IPC 8 full level

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CPC (source: EP KR)

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Citation (search report)

- [XY] JP 2006263890 A 20061005 - NORITAKE SUPER ABRASIVE KK, et al
- [XY] JP 2002224965 A 20020813 - NORITAKE SUPER ABRASIVE KK, et al
- [Y] JP 2000024933 A 20000125 - HONDA MOTOR CO LTD
- [Y] JP 2003305656 A 20031028 - NORITAKE SUPER ABRASIVE KK, et al
- [Y] US 2004112359 A1 20040617 - SUNG CHIEN-MIN [TW]

Cited by

CN107225515A; CN109732497A; CN110355640A

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