

Title (en)

Opening and cleaning device for fibre material

Title (de)

Vorrichtung zum Öffnen und Reinigen von Fasergut

Title (fr)

Dispositif d'ouverture et de nettoyage de matière fibreuse

Publication

EP 1236817 B1 20060531 (DE)

Application

EP 02003730 A 20020219

Priority

DE 10108140 A 20010220

Abstract (en)

[origin: EP1236817A1] The taker-in on a card is clothed with saw-tooth shaped teeth with a clear height (Z) between tip and the upper side of the base of 1.5 to 2.5 mm, preferably 2 mm. The total height (H) is 2 to 3.5 mm, preferably 2.5 mm and the depth of the tooth undercut 1.1 to 1.7 mm, preferably 1.4 mm. The angle of the leading edge of the tooth is 5 to 24 [deg], preferably 10 [deg]. Two or three taker-in rollers of the same diameter can be employed with successive rollers having increasing leading angle, point density, tooth height, and/or speed. Preferred Features: The base height (F) is 0.5 mm, the tooth base width (B) 2 mm, and the tooth pitch 2.5mm. The rollers are clothed to a point density of 130 ppsi.

IPC 8 full level

D01G 15/20 (2006.01); **D01G 9/06** (2006.01); **D01G 15/84** (2006.01); **D01G 15/88** (2006.01)

CPC (source: EP)

D01G 9/06 (2013.01); **D01G 15/88** (2013.01)

Citation (examination)

- US 3391429 A 19680709 - MORIICHI WATANABE
- DE 10012561 A1 20011004 - GRAF & CO AG [CH]
- GB 2271126 A 19940406 - TRUETZSCHLER GMBH & CO KG [DE]

Cited by

CN100439578C; EP1995362A1; FR2916454A1

Designated contracting state (EPC)

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