

Title (en)

Fibre-opening unit having teeth with improved contour

Title (de)

Auflöseeinrichtung mit verbesserter Kontur aufweisenden Zähnen

Title (fr)

Dispositif d'ouvrison comprenant des dents avec contour amélioré

Publication

EP 1657328 A3 20070530 (DE)

Application

EP 05110353 A 20051104

Priority

DE 102004054653 A 20041111

Abstract (en)

[origin: EP1657328A2] The teeth of an opening roller are at most spaced (L 2) 20 mm, preferably 12 mm, apart and have a height (H 2) no greater than the spacing (L 2). Near the tip (5) the leading edge (7) makes a positive angle (WB) of 0 to 10 degrees. Near the root the edge (8) is at an angle (WS) to the vertical tangent (10), e.g. at 30 to 50 degrees. The height of the tooth base is less than 2.5 mm, e.g. 0.7 to 1 times the tooth height (H 2). Independent claims are also included for a spinning machine opening roller furnished with such teeth and for card clothing wire or wire rings having teeth of this kind.

IPC 8 full level

D01H 4/32 (2006.01)

CPC (source: EP US)

D01G 15/88 (2013.01 - EP US); **D01H 4/32** (2013.01 - EP US)

Citation (search report)

- [X] DE 3723872 A1 19890202 - HOLLINGSWORTH GMBH [DE]
- [X] US 2937413 A 19600524 - HOLLINGSWORTH JOHN D

Cited by

CN106557613A; US7818848B2; DE102007062841A1; EP3497271B1

Designated contracting state (EPC)

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

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1657328 A2 20060517; **EP 1657328 A3 20070530**; **EP 1657328 B1 20090715**; CN 1772985 A 20060517; CN 1772985 B 20110803; DE 102004054653 A1 20060518; DE 502005007698 D1 20090827; US 2006186240 A1 20060824; US 7313908 B2 20080101

DOCDB simple family (application)

EP 05110353 A 20051104; CN 200510120150 A 20051109; DE 102004054653 A 20041111; DE 502005007698 T 20051104; US 27151205 A 20051110