

Title (en)
Yarn heater

Title (de)
Garnheizelement

Title (fr)
Dispositif de chauffage pour fil

Publication
EP 2574691 A1 20130403 (EN)

Application
EP 12196271 A 20120425

Priority
• EP 12165485 A 20120425
• JP 2011098122 A 20110426

Abstract (en)
A yarn is sufficiently heated on account of improved efficiency in heating the yarn. A roller unit 4 has a godet roller 11 and a separate roller 12 in a thermal insulation box 13. In the thermal insulation box 13, yarns Y are wound plural times onto the godet roller 11 and the separate roller 12 without overlapping one another, and are heated by the godet roller 11. The roller unit 4 further includes a corrugated plate 30 which opposes the outer circumference of the godet roller 11 on which the yarns Y are wound, with a gap being formed therebetween. On the opposing surface of the corrugated plate 30 which surface opposes the godet roller 11 is formed a plurality of spaces defined by concave portions that are provided along the circumferential directions of the godet roller 11.

IPC 8 full level
D01D 10/02 (2006.01); **D02J 1/22** (2006.01); **D02J 13/00** (2006.01)

CPC (source: CN EP KR)
D01D 10/02 (2013.01 - EP); **D01D 13/02** (2013.01 - KR); **D02J 1/22** (2013.01 - EP KR); **D02J 13/00** (2013.01 - KR);
D02J 13/005 (2013.01 - CN EP)

Citation (applicant)
JP H07278990 A 19951024 - TORAY INDUSTRIES

Citation (search report)
• [A] EP 0388878 A2 19900926 - DU PONT [US]
• [A] GB 1019597 A 19660209 - ALLIED CHEM, et al
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• [A] GB 947407 A 19640122 - CANADIAN IND
• [A] JP 2005004033 A 20050106 - KONICA MINOLTA BUSINESS TECH
• [A] US 3177555 A 19650413 - CLAPP JOHN W, et al
• [A] EP 2290294 A1 20110302 - REZNOR LLC [US]
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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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2518197 A1 20121031; EP 2518197 B1 20131218; CN 102758287 A 20121031; CN 102758287 B 20161214; CN 107012562 A 20170804; CN 107012562 B 20190430; EP 2574691 A1 20130403; EP 2574691 B1 20140115; JP 2012229504 A 20121122; JP 5735849 B2 20150617; KR 101635484 B1 20160701; KR 20120121349 A 20121105

DOCDB simple family (application)
EP 12165485 A 20120425; CN 201210122738 A 20120424; CN 201610960971 A 20120424; EP 12196271 A 20120425; JP 2011098122 A 20110426; KR 20120038473 A 20120413