

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
D02J 1/22 (2006.01); **D01D 10/02** (2006.01); **D02J 13/00** (2006.01)

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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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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)
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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