

Title (en)  
Functional yarn and method for manufacturing the same

Title (de)  
Funktionales Garn und Herstellungsverfahren dafür

Title (fr)  
Fil fonctionnel et son procédé de fabrication

Publication  
**EP 2241659 A1 20101020 (EN)**

Application  
**EP 09003666 A 20090313**

Priority  
EP 09003666 A 20090313

Abstract (en)  
A functional yarn includes a thread (10), a plastic material (20) coated on the thread (10) and functional particles (30) disposed evenly in the plastic material (20). A method for manufacturing a functional yarn includes the steps of blending a plastic material (20) with function particles (30) so that the functional particles (30) are disposed evenly in the plastic material (20) and coating the plastic material (20) with functional particles (30) on a thread (10) in a hot-melt manner to form the functional yarn. Because the functional yarn uses the plastic material (20) as a binding agent, the functional particles (30) are adhered firmly on the thread (10).

IPC 8 full level  
**D02G 3/40** (2006.01); **D06B 3/04** (2006.01)

CPC (source: EP)  
**D02G 3/404** (2013.01); **D06B 3/04** (2013.01)

Citation (search report)

- [X] US 2007141335 A1 20070621 - PERERA WILLORAGE R [US], et al
- [X] JP 2005023690 A 20050127 - TORAY PEF PRODUCTS INC
- [X] GB 1267271 A 19720315 - TEIJIN LTD [JP]
- [X] JP 2007239330 A 20070920 - TEIJIN TECHNO PRODUCTS LTD
- [X] JP H10292268 A 19981104 - TEIJIN LTD
- [X] JP S63270874 A 19881108 - TORAY INDUSTRIES
- [X] EP 1559815 A2 20050803 - TEIJIN MONOFILAMENT GER GMBH [DE]
- [X] JP S5831168 A 19830223 - UNITIKA LTD
- [X] CN 1733985 A 20060215 - WANG QIMING [CN]

Cited by  
CN105316832A

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