

Title (en)
FUNCTIONAL MATERIALS WITH REVERSIBLE CROSSLINKING

Title (de)
FUNKTIONSMATERIALIEN MIT REVERSIBLER VERNETZUNG

Title (fr)
MATÉRIAUX FONCTIONNELS À RÉTICULATION RÉVERSIBLE

Publication
EP 2931817 A1 20151021 (DE)

Application
EP 13791781 A 20131111

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• DE 102012222742 A 20121211
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Abstract (en)
[origin: WO2014090492A1] The invention relates to a novel method for the reversible crosslinking of, for example, adhesive or coating materials, and to a composition for carrying out this crosslinking reaction which is stable for storage at room temperature. The reversible crosslinking method allows very rapid crosslinking already at a low first temperature and dissolution of the crosslinking points at higher temperatures, such that thermoplastic workability is reclaimed and, for example, substrates that were originally adhered can be separated from one another again easily. One specific aspect is that the present system allows a plurality of cycles of crosslinking and dissolution of the crosslinking points. The system used for reversible crosslinking is characterised in that it consists of two components, A and B, where component A is a compound of at least two protected dithioesters, preferably cyanodithioesters, and component B is a compound having at least two diene functionalities.

IPC 8 full level
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Cited by
EP3199575A1; WO2017129483A1

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