

Derwent World Patents Index (DWPI)



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Patent records in DWPI are compiled from the patents and published applications of 50 global issuing authorities and two literary sources. The file contains more than 76 million patent documents and 36 million patent-family-based records with more than 21.5 million images back to 1963 and is updated every 3 to 4 days.

- High-quality bibliographic information summarizing all publication details for a particular invention
- Enhanced Derwent titles and patent-focused abstracts
- DWPI-specific coding and deep indexing for chemical patents
- Full coverage of major patent classifications, including IPC, CPC, Japanese F-terms and FI-terms.
- Original patent titles, abstracts, and main claim text

The Derwent value-add for chemical patents

DWPI Chemistry Resource (DCR) provides structure-based access to specific chemical compounds back to 1999 for all users of DWPI.

Subscribers can also benefit from

- Fragmentation coding providing access to specific and Markush structures back to 1963
- Polymer Indexing available for all polymer-related patents back to 1966
- Manual Codes used in the chemical, pharmaceutical and agrochemical area to classify significant parts of the invention and its commercial application back to 1963.

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Your benefit

- More comprehensive retrieval and easier relevance checking from value-added text data
- More reliable technology searching with DWPI deep indexing
- Great variety of search options for more focused searches
- Efficient patent analysis from highly standardized bibliographic data
- Numeric property search feature

A typical DWPI database record

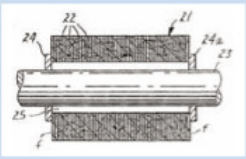
ACCESSION NUMBER: 2000-430976 [37] WPIX
 TITLE: **1** Self-healing roll for surface conditioning of sheets, e.g. metal sheets, has non-woven web elements comprising entangled fibers held together by a bonding agent

DERWENT CLASS: A88; F04; M12; P51; P73; Q62
 INVENTOR: BARBER L L; YOUNG J B
 PATENT ASSIGNEE: (MINN-C) 3M INNOVATIVE PROPERTIES CO **2**
 COUNTRY COUNT: 20

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 2000030778	A1	20000602	(200037)*	EN	25[3]
EP 1135220	A1	20010926	(200157)	EN	
US 6300261	B1	20011009	(200162)	EN	
EP 1135220	B1	20020904	(200266)	EN	3
DE 69902811	E	20021010	(200274)	DE	
JP 2002530544	W	20020917	(200276)	JA	24

GRAPHIC INFORMATION: **4**



BASIC ABSTRACT:

WO 2000030778 A1 UPAB: 20060116
 NOVELTY - A self-healing article e.g. in the form of roll (21) comprises several compacted stacked web elements (22) having entangled fibers bonded together at points of mutual contact by a bonding agent. The article is resistant to an oxidizing agent and has a Shore A hardness of 70-93 and a void volume of 2-30%. **5**

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method of making a self-healing and non-woven article comprising (i) providing several non-woven web elements comprising entangled fibers bonded at points of mutual contact by a bonding agent; (ii) stacking into a pile; (iii) compacting under a compaction force; and (iv) re straining the pile to form the self-healing article.

USE - For surface conditioning of sheets, e.g. metal sheets.

ADVANTAGE - The invention provides a self-healing article resistant to oxidizing agents having an increased life span. If used, results in fewer roll replacements and unscheduled production line downtimes. Chances of chemical contamination between treating solutions are also minimized.

DESCRIPTION OF DRAWINGS - The figure shows a partial cross-sectional view of a roll disposed on a keyed shaft.

Roll (21)
 Compacted stacked non-woven web elements (22)

INDEX TERMS 129411-DIS; 140524-DIS; **368-DIS**; 395-DIS; 478-DIS **6**

Member(0001)
 PI WO 2000030778 A1 20000602 (200037)* EN 25[3]

TIEN SELF-HEALING ARTICLES RESISTANT TO OXIDIZING AGENTS **7**
 TIFR ARTICLES DE REGENERATION RESISTANT AUX AGENTS D'OXYDATION
 AG BUSSE, Paul, W.
 AGA: 3M Innovative Properties Company, Office of Intellectual Property Counsel, P.O. Box 33427, Saint Paul, MN 55133-3427, US
 IN YOUNG J B
 INO: YOUNG, John, B.
 INA: P.O. Box 33427, Saint Paul, MN 55133-3427, US
 BARBER L L **8**
 INO: BARBER, Loren, L.
 INA: P.O. Box 33427, Saint Paul, MN 55133-3427, US

[...]
 ABEN Self-healing articles resistant to oxidizing agents and useful for surface conditioning of sheets, especially metal sheets, are described. The articles (21) comprise a plurality of compacted, stacked non-woven web
 [...]

1 DWPI enhanced patent title describing the overall invention

2 Patent assignee information with standardized patent assignee code (PACO)

3 DWPI patent family information

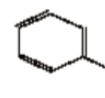
4 Selected drawing image

5 DWPI enhanced abstract

6 Substance information from DWPI Chemistry Resource

L1 ANSWER 1 of 1
 WPIX COPYRIGHT 2007

AN.S DCR-368
 CN.P STYRENE
 CN.S Vinyl-benzene
 SDCN R00708
 SDRN 0708



7 Original patent titles and abstract

8 Original bibliographic data – agent details, full inventor names, patent assignee names