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STN is operated jointly by CAS and FIZ Karlsruhe worldwide and is represented in Japan by JAICl.
A 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.

Patent assignee: (MINN-C) 3M Innovative Properties Co

Country count: 20

Patent information:

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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.