

Title (en)

PROCESS FOR INTRODUCING A WEAKENING LINE THROUGH MATERIAL REMOVAL ON A FIBROUS COATING MATERIAL, IN PARTICULAR NATURAL LEATHER

Title (de)

VERFAHREN ZUR EINBRINGUNG EINER SCHWÄCHUNGSLINIE DURCH MATERIALABTRAG AN EINEM FASRIGEN ÜBERZUGMATERIAL, INSBESONDERE EINEM NATÜRLICHEN LEDER

Title (fr)

PROCÉDÉ POUR INTRODUIRE UNE LIGNE D'AFFAIBLISSEMENT PAR ENLÈVEMENT DE MATIÈRE, DANS UNE MATIÈRE DE REVÊTEMENT FIBREUSE, EN PARTICULIER UN CUIR NATUREL

Publication

**EP 2988905 A1 20160302 (DE)**

Application

**EP 14714168 A 20140325**

Priority

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- EP 2014000805 W 20140325

Abstract (en)

[origin: DE102013104138B3] Introducing a defined line of weakness (2) by removal of material to a fibrous covering material (1), comprises directing a pulsed laser beam (31) to the rear side of covering material having display side (11) and a rear side (12) opposite to it, and linearly guiding; and determining a depth of the resulting score line of impingement of a laser beam along a line in each case by many laser pulses. The linear guiding is a multiple repetition of a scanning, and only one laser pulse is emitted, respectively per point of incidence when guided along the line. Introducing a defined line of weakness (2) by removal of material to a fibrous covering material (1), comprises directing a pulsed laser beam (31) to the rear side of covering material having display side (11) and a rear side (12) opposite to it, and linearly guiding; and determining a depth of the resulting score line of impingement of a laser beam along a line in each case by many laser pulses. The linear guiding is a multiple repetition of a scanning, and only one laser pulse is emitted, respectively per point of incidence when guided along the line, which causes an energy input leading to the respective point of incidence to the heating of the fibrous coating material to a temperature above an ablation threshold and maintains a temperature adjacent to the areas of point of incidence of the fibrous coating material below a limit temperature that would lead to changes in the structure of the fibrous coating material.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2014173486A1

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