

Title (en)
METHOD FOR THE LASER ABLATION OF BRITTLE COMPONENTS

Title (de)
VERFAHREN ZUM LASERRITZEN VON SPRÖDEN BAUTEILEN

Title (fr)
PROCÉDÉ POUR L'INCISION AU LASER DE COMPOSANTS CASSANTS

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Application
EP 08848569 A 20081107

Priority

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Abstract (en)
[origin: WO2009060048A1] The invention relates to a method for the laser ablation of brittle components (8) in preparation for the subsequent separation of the same, by the introduction of sack-like indentations (1) by a laser beam, wherein the indentations (1) are arranged in a line one after the other, and form a laser ablation line (2) which serves as the fracture initiation line, wherein the term laser ablation line means a line formed by connecting the middle points of all the indentations (1). At least two laser ablation lines (2) are introduced onto the component (8) surface and cross each other at a cross point (3). In order to ensure that the fracture always runs along the laser ablation line during the separation process, that fractures deviating from the laser ablation line are avoided, and that the corners of the separated pieces following fracturing are evenly shaped, it is suggested according to the invention that at least one cross point indentation (4) is introduced at the cross point (3) in a targeted, controlled, and intentional manner, which specifically weakens the component (8) at the cross point (3).

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Citation (search report)
See references of WO 2009060048A1

Citation (examination)

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- JP H07273069 A 19951020 - NICHIA KAGAKU KOGYO KK
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