Title (en)
GEAR WHEEL PRODUCTION METHOD

Title (de)
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Title (fr)
PROCÉDÉ DE FABRICATION DE ROUE DENTÉE

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Application
EP 14780798 A 20140925

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Abstract (en)
[origin: WO2015044249A2] The invention relates to a method for producing a spur-cut gear wheel (1; 10; 32; 39) comprising a plurality of individual components, which comprises the steps: a) providing the individual components, which comprise at least one hub (2; 11; 33; 40), a disk wheel (3; 12, 13; 34, 35; 41, 42) and a ring gear (4; 14; 36; 43), b) at least partial mechanical soft machining of the individual components, c) joining the individual components by using a welding method, d) hardening at least the ring gear (4; 14; 36; 43), e) hard machining at least the ring gear (4; 14; 36; 43), and f) carrying out a grinding burn test by using the nital etching process, characterized in that, before carrying out step f), gaps (6; 23; 37) present on the rear side in the area of the welds produced in step c) are sealed by using a sealing material (8; 24; 38) that is resistant to nitric acid.

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