

Title (en)
POSITIONAL FIXING OF A PIN

Title (de)
LAGEFIXIERUNG EINES BOLZENS

Title (fr)
FIXATION D'UN TOURILLON

Publication
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Application
EP 03761465 A 20030612

Priority
• EP 0306277 W 20030612
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Abstract (en)
[origin: US2004000280A1] The invention concerns the fixing of a bearing shaft (6) in a reception bore (1.3) of a housing, at least one end of the shaft being adapted to be swaged to the reception bore (1.3) for achieving at least one of a force locking and a positive engagement, and an outer peripheral surface of the shaft (6) having a hardness that is greater than a hardness of the ends (6.2) of the shaft. The novel shaft is carbonitrided, quenched and tempered so that at first a hardness of HV 745-950 (HRC 62-68) is realized, following which the thus treated shaft (6) is soft annealed to produce a hardness of HV 212-305 (HRB 93-HRC30), and the outer peripheral surface is then subjected to induction hardening to achieve a final hardness of HV 745-950 (HRC 62-68). The shaft of the invention has a long operating life even under high load conditions.

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F01L 1/18

IPC 8 full level
F01L 1/18 (2006.01)

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F01L 1/18 (2013.01 - EP KR US); **F01L 2305/02** (2020.05 - EP US)

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