

Title (en)

METHOD FOR CONTROLLING THE QUALITY OF INSTALLATION OF A BLIND FASTENER

Title (de)

METHODE ZUR ÜBERPRÜFUNG DER QUALITÄT DER INSTALLATION EINER BLINDBEFESTIGUNG

Title (fr)

MÉTHODE POUR CONTRÔLER LA QUALITÉ DE L'INSTALLATION D'UNE FIXATION AVEUGLE

Publication

EP 4056296 C0 20240424 (FR)

Application

EP 22161522 A 20220311

Priority

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Abstract (en)

[origin: US2022288670A1] This relates to a method for the quality control of a blind fastener installation in a structure comprising a sleeve and a core bolt, with a deformation of a rear side of the structure, a signal being generated during the installation process. The process includes a) identification of two notable points of the signal, chosen among: pulling start point (S1); buckling (B1) of the sleeve; contact (B2, S2) of the sleeve or of the core bolt; force setpoint (B3) or fracture (S3) of a portion of the core bolt; b) estimation of a first parameter as a function of a notable point, characterizing a bulb in contact with the rear side; c) estimation of a second parameter as a function of a notable point, characterizing a tension applied in the core bolt; and d) for each estimated parameter, comparison with a condition that indicates the proper installation of the fastener.

IPC 8 full level

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