

Title (en)
CONNECTING ELEMENT IN THE FORM OF A SCREW, NUT, OR DISC FOR A SCREW CONNECTION AND A METHOD FOR TIGHTENING THE SAME

Title (de)
VERBINDUNGSELEMENT IN FORM EINER SCHRAUBE, MUTTER ODER SCHEIBE FÜR EINE SCHRAUBVERBINDUNG, SOWIE VERFAHREN ZU DEREN FESTZIEHEN

Title (fr)
ELEMENT DE LIAISON, SE PRESENTANT SOUS LA FORME D'UNE VIS, D'UN ECROU OU D'UNE RONDELLE, DESTINE A UNE LIAISON VISSEE, AINSI QUE SON PROCEDE DE SERRAGE

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Application
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Abstract (en)
[origin: WO0153707A1] The invention relates to a connecting element in the form of a screw, nut, or disc for a screw connection, comprising on its bearing surface at least one projecting section (11) and at least one surface (17) extending radially beyond said projecting section. The height and cross-section of the projecting section are dimensioned in such a way that said section is elastically or plastically deformed to such an extent during the tightening of the screw connection that once a predetermined pre-tensioning force has been reached, the radially extending surface (17) comes to rest against the opposing surface. In the conventional practice of tightening a screw connection to a predetermined tightening torque, the invention enables the tolerance range of the pre-tensioning force corresponding to the tightening torque to be reduced. The modification to the differential ratio torque angle of rotation which occurs when the projecting element has deformed to a sufficient extent and the radially extending surface makes contact, can also be used as the criterion for ending the tightening operation.

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