

Title (en)
SLEEVE BOLT

Title (de)
BOLZEN MIT HÜLSE

Title (fr)
VIS A MANCHON

Publication
EP 1177386 A1 20020206 (EN)

Application
EP 00922358 A 20000501

Priority
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Abstract (en)
[origin: WO0070232A1] A sleeve bolt (B) for insertion in a hole (H) delimited by a wall comprises a threaded fastener (40) and an expansion member (41). The threaded fastener (40) has a stem (50) that includes a proximal cylindrical shank (52) and a distal threaded section (54). The shank (52) has substantially the diameter of the hole (H) and defines at a distal end thereof a conical expander portion (56). The expansion member (41) comprises a distal threaded member (44) and a proximal expansion wedge (42), the threaded member (44) being threadably engaged to the threaded section (54) of the stem (50). The expansion wedge (42) has a proximal end (68) adapted, upon axial displacement of the expansion member (41) towards the shank (52) resulting from a rotation of the stem (50), to engage the conical expander portion (56) such as to expand the proximal end (68) of the expansion wedge (42) outwardly into engagement with the wall. The expansion wedge (42) frictionally engages the wall upon introduction of the stem (50) in the hole, whereas the threaded member (44) is spaced from the wall. The threaded member (44) comprises a distal conical section (62) which tapers towards the expansion wedge (42) and which is adapted to displace towards and relative to both the expander portion (56) and the expansion wedge (42) such that the conical section (62) causes a distal end (70) of the expansion wedge (42) to expand outwardly into engagement with the wall.

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