

Title (en)
Tufting needle

Title (de)
Tuftingnadel

Title (fr)
Aiguille à touffeter

Publication
EP 0882831 B1 20060510 (EN)

Application
EP 97108895 A 19970603

Priority
EP 97108895 A 19970603

Abstract (en)
[origin: EP0882831A1] In the case of a tufting needle, as an individual needle and as an element of a needle module incorporating several such needles, with an eye (4) provided in the area of its tip (3) and a thread-guiding groove (5) on one side of the needle, starting from the eye (4) and running along the needle stem (2), the invention provides for a thread-feeding element (10; 12; 15; 21; 31; 37; 43; 46; 50; 59; 78) to be incorporated in the upper area of the stem of the thread-guiding groove (5), to introduce the thread into this groove. In particular, the thread-feeding element can take the form of a hook or a hole. It collects the thread in the upper area of the needle stem and supplies it to the thread-guiding groove, which conveys the thread under cover to the eye. This process of feeding in the thread along the length of the needle lowers the load on the needle and thread and reduces the frictional forces which occur during movement of the needle in the backing material. <IMAGE>

IPC 8 full level
D05C 15/20 (2006.01); **D05C 15/18** (2006.01)

CPC (source: EP)
D05C 15/18 (2013.01); **D05C 15/20** (2013.01)

Cited by
EP1004696A1; EP1052324A3; GB2361248A; GB2361248B; US6318280B1; WO0177431A1

Designated contracting state (EPC)
BE DE GB NL

DOCDB simple family (publication)
EP 0882831 A1 19981209; EP 0882831 B1 20060510; DE 69735842 D1 20060614; DE 69735842 T2 20070419

DOCDB simple family (application)
EP 97108895 A 19970603; DE 69735842 T 19970603