

Title (en)  
METHOD AND DEVICE FOR PRODUCING SEAMS

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON NÄHNÄHTEN

Title (fr)  
PROCEDE ET DISPOSITIF PERMETTANT DE REALISER DES COUTURES

Publication  
**EP 1068385 B1 20021023 (DE)**

Application  
**EP 99919103 A 19990320**

Priority  
• DE 9900797 W 19990320  
• DE 19813887 A 19980328

Abstract (en)  
[origin: DE19813887A1] The method and devices currently used to sew textiles, causing the sewing thread to fully penetrate the material to be sewn, require mechanical elements forming the stitches that are placed on both sides of the plane of the material to be sewn. This causes manipulation, mechanical and space-related problems when sewing large materials that should not be creased. The inventive method and the new device make it possible to sew the material in a one-sided operation and require minimum space. In order to produce the seam, two or more sewing needles (1,5) alternatively penetrate the entire sewing material (3). The loop (4) formed by a sewing thread is taken up by the next penetrating needle (5) and untied. The following penetrating needle then transfers the loops of the sewing thread. The sewing needles move three-dimensionally. The method and the device are suitable for sewing large, curved material that should not be creased, for example, reinforcement fabrics for fiber reinforced materials.

IPC 1-7  
**D05B 3/02**; D05B 23/00; D05B 1/10; D05B 1/24; D04B 23/10

IPC 8 full level  
**D04B 23/10** (2006.01); **D05B 1/10** (2006.01); **D05B 1/24** (2006.01); **D05B 3/02** (2006.01); **D05B 23/00** (2006.01)

CPC (source: EP US)  
**D04B 23/10** (2013.01 - EP US); **D05B 1/10** (2013.01 - EP US); **D05B 1/24** (2013.01 - EP US); **D05B 3/02** (2013.01 - EP US);  
**D05B 23/00** (2013.01 - EP US); **D10B 2505/02** (2013.01 - EP US)

Designated contracting state (EPC)  
BE CH DE ES FR GB IT LI NL

DOCDB simple family (publication)  
**DE 19813887 A1 19990930**; AU 3700099 A 19991018; DE 19980552 D2 20010517; DE 59903170 D1 20021128; EP 1068385 A1 20010117;  
EP 1068385 B1 20021023; US 6357371 B1 20020319; WO 9950492 A1 19991007

DOCDB simple family (application)  
**DE 19813887 A 19980328**; AU 3700099 A 19990320; DE 19980552 T 19990320; DE 59903170 T 19990320; DE 9900797 W 19990320;  
EP 99919103 A 19990320; US 64748500 A 20001207