

Title (en)

METHOD AND SYSTEM FOR FORMING STRINGS OF POCKETED COIL SPRINGS

Title (de)

VERFAHREN UND SYSTEM ZUM HERSTELLEN EINER KETTE VON TASCHENFEDERN

Title (fr)

PROCEDE ET SYSTEME PERMETTANT DE FORMER DES BANDES DE RESSORTS HELICOIDaux ENSACHES

Publication

EP 1171377 A1 20020116 (EN)

Application

EP 00911198 A 20000331

Priority

- IB 0000396 W 20000331
- US 29322199 A 19990416
- US 35348399 A 19990713

Abstract (en)

[origin: WO0063113A1] A string (12) of pocketed coil springs (14) is formed by inserting compressed springs between upper and lower plies of a folded, preferably thermally weldable fabric (16). The springs are maintained in a compressed configuration while a longitudinal seam (54) joins the free edges of the thermally welded fabric (16) together. Subsequently, the compressed springs (14) are allowed to relax into an expanded configuration after which a transverse seam (80) is formed in the fabric (16) between the adjacent springs (14) thereby encapsulating each spring (14) within a fabric pocket (86). The string (12) of pocketed coil springs (14) is advantageously formed without the need for reorienting the springs (14) after being inserted between the plies (24, 26) of the fabric (16) and thereby avoiding the disadvantages and complications associated with turning or reorienting the pocketed coil spring (14).

IPC 1-7

B68G 9/00

IPC 8 full level

A47C 27/07 (2006.01); **B68G 9/00** (2006.01)

CPC (source: EP US)

B68G 9/00 (2013.01 - EP US)

Citation (search report)

See references of WO 0063113A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0063113 A1 20001026; AT E280735 T1 20041115; AU 3318900 A 20001102; BR 0009482 A 20020326; CA 2368852 A1 20001026; CA 2368852 C 20081216; CN 1251959 C 20060419; CN 1355766 A 20020626; DE 60015318 D1 20041202; DE 60015318 T2 20051124; DE 60015318 T3 20121108; EP 1171377 A1 20020116; EP 1171377 B1 20041027; EP 1171377 B2 20120613; ES 2232431 T3 20050601; ES 2232431 T5 20121022; GB 0108713 D0 20010530; GB 2358796 A 20010808; GB 2358796 B 20011212; JP 2002541943 A 20021210; JP 4377074 B2 20091202; MX PA01010382 A 20020327; PT 1171377 E 20050429; TR 200102879 T2 20020422

DOCDB simple family (application)

IB 0000396 W 20000331; AT 00911198 T 20000331; AU 3318900 A 20000331; BR 0009482 A 20000331; CA 2368852 A 20000331; CN 00806225 A 20000331; DE 60015318 T 20000331; EP 00911198 A 20000331; ES 00911198 T 20000331; GB 0108713 A 20000331; JP 2000612214 A 20000331; MX PA01010382 A 20000331; PT 00911198 T 20000331; TR 200102879 T 20000331