

Title (en)  
Yarn processing apparatus

Title (de)  
Fadenverarbeitungsmaschine

Title (fr)  
Machine de traitement de fil

Publication  
**EP 0499380 B1 19970423 (EN)**

Application  
**EP 92300679 A 19920127**

Priority  
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Abstract (en)  
[origin: EP0499380A1] In the feeding of an elastomeric yarn (10) having a very low modulus of elasticity, for example for forming a composite yarn (50) from the elastomeric yarn (10) and a relatively inelastic yarn (22) such as nylon, the elastomeric yarn is fed from a supply package (12) in a relaxed form, through a precisely controlled tensioning device (90). The tensioning device (90) includes a driven reel (91) carrying several turns of the elastomeric yarn (10) and a tension detector means comprising a pivoted arm (93) biased by a torque motor acting on a lever (97) which is pivoted (98), rotation of the lever (97) controlling a stepper motor drive to the tensioning reel (91). Since the drive to the tensioning reel (91) is continuously adjusted in response to the actual instantaneous tension in the elastomeric yarn (10), the tension can be maintained precisely throughout the supply from the package (12) which can therefore be connected nose to tail with a second reserve package (12') for high speed continuous feeding of the elastomeric yarn. <IMAGE>

IPC 1-7  
**B65H 59/38**; **D02G 3/32**

IPC 8 full level  
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CPC (source: EP)  
**B65H 59/388** (2013.01); **D02G 3/328** (2013.01); **B65H 2701/319** (2013.01)

Cited by  
FR2757496A1; EP1676943A3; FR2749859A1; GB2306175A; GB2306175B; US5931023A; US6105398A; EP0945534A3; EP4310044A1; WO9748843A1; TWI825337B

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