

Title (en)  
NEEDLE CYLINDER AND CIRCULAR KNITTING MACHINE

Title (de)  
NADELZYLINDER UND RUNDSTRICKMASCHINE

Title (fr)  
CYLINDRE D'AIGUILLES ET MACHINE À TRICOTER CIRCULAIRE

Publication  
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Application  
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Abstract (en)  
[origin: WO2016142843A1] The present invention relates to a needle cylinder (1, 1') of a circular knitting machine (10, 10'), on the cylinder barrel (3) of which a plurality of needle channels (4) is provided extending in the axial cylinder direction with knitting needles (5) which are able to move therein, and in the upper cylinder end (6, 6') thereof provided for stitch forming, a radially orientated groove (7) is provided between each pair of neighbouring needle channels (4), in which at least one respective insert (8, 8') is provided, which forms a stitch forming surface with the insert surface (81) thereof protruding from the respective groove (7). The invention further relates to a circular knitting machine (10, 10') with a needle cylinder (1, 1') of this type. Thus, the object of the invention is to provide a needle cylinder (1, 1') of the above-mentioned type and a circular knitting machine (10, 10') comprising a needle cylinder (1, 1') of this type having exchangeable inserts (8, 8') forming stitch forming surfaces, the exchanging of which involves a reasonable expenditure of time. Said problem is solved by a needle cylinder (1, 1') of the above-mentioned type and a corresponding circular knitting machine (10, 10'), in which the insert (8, 8') is designed in the form of a spring bow, wherein the spring bow comprises a bracket foot spanning the upper cylinder end (6) on the side of the cylinder barrel (3) or a lateral edge (31) of an outer annular channel (30) provided in the upper cylinder end (6') and a bow clamp (83) spanning the upper cylinder end (6) on the inner side (9) of the cylinder or a lateral edge of an inner annular channel provided in the upper cylinder end (6'), said bow clamp having at least one clamp section (832) engaging in a spring-like manner behind a counter-support (91).

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