

Title (en)  
YARN ARRANGING MACHINE

Title (de)  
GARNANORDNUNGSMASCHINE

Title (fr)  
MACHINE D'AGENCEMENT DE FILS

Publication  
**EP 3121316 A1 20170125 (EN)**

Application  
**EP 15405046 A 20150720**

Priority  
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Abstract (en)  
The invention relates to a yarn arranging machine (1) for forming a warp with a desired yarn arrangement from a plurality of yarn layers, each layer comprising a plurality of yarns extending parallel to each other lengthwise along a machining direction of the yarn arranging machine (1), said yarn arranging machine (1) comprising; an open collector comb (50) for receiving the plurality of yarns according to the desired yarn arrangement, the collector comb extending lengthwise along a transverse direction (T) across the width of the plurality of yarn layers transverse to the machining direction; a yarn releasing device (20) comprising at least one support member (22) for supporting the yarns of a respective yarn layer selected from the plurality of yarn layers, said support member (22) having a free end and being interposable between the yarns of the selected yarn layer and the collector comb (50); releasing driving means (26) configured to move the free end of the support member (22) in the transverse direction (T) relative to the selected yarn layer to free a passage for the supported yarns of the selected yarn layer toward the collector comb (50); collector driving means configured to cause a relative movement between the collector comb (50) and the selected yarn layer at least in the transverse direction (T). The invention further relates to a method for preparing a warp with a desired yarn arrangement from a plurality of separated yarn layers overlapping each other across the width of the plurality of yarn layers.

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CN 103046266 A 20130417 - GUANGDONG ESQUEL TEXTILES CO

Citation (search report)  
• [A] JP H0333240 A 19910213 - ASAHI SHIYUEEBELL KK  
• [A] EP 1741814 A2 20070110 - MURATA MACHINERY LTD [JP], et al  
• [A] US 4438553 A 19840327 - HAMADA SHOICHI [JP]

Cited by  
CN111676577A

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