

Title (en)  
A thread heating device

Title (de)  
Heizeinrichtung für einen Faden

Title (fr)  
Dispositif de chauffage d' un fil

Publication  
**EP 1526196 A2 20050427 (EN)**

Application  
**EP 03024172 A 20031020**

Priority  
EP 03024172 A 20031020

Abstract (en)  
A false twist texturing machine is modified to enable it to operate at very high revolutions (e.g. above 20,000RPM), i.e. processing rates with high linear threadline speeds (above 2000 M/Min). The friction disc stack is provided with a drive motor for each spindle shaft. For safety at high RPMs, the stack is encased in a protective housing which can absorb energy of flying parts in the event of breakage. Heat is supplied to the thread by non-contact heating (convection and/ or radiation) in an insulated space, the thread preferably being guided through the heated space by positively driven godet units. The thread path is so arranged that positive forwarding elements are provided at each diverting location, so that no passive guides or feeding nips are required. A special start-up procedure enables establishment of a stable threadline at relatively slow processing speed followed by acceleration to the set operating speed.

IPC 1-7  
**D02J 13/00**; **D02G 1/02**

IPC 8 full level  
**D02G 1/02** (2006.01); **D02G 1/08** (2006.01); **D02J 1/22** (2006.01); **D02J 13/00** (2006.01)

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