

Title (en)  
DRAWING APPARATUS FOR SYNTHETIC YARNS

Publication  
**EP 0298316 A3 19901114 (DE)**

Application  
**EP 88110077 A 19880624**

Priority  
• DE 3722162 A 19870704  
• DE 3724740 A 19870725

Abstract (en)  
[origin: EP0298316A2] A drawing apparatus for synthetic yarns utilises a drawing pin which is wrapped by the yarn through 360 DEG . There is a danger that the yarn will cut into the surface of the drawing pin (7). To avoid this, the drawing pin (7) is pivoted reversingly about an axis (13). The axis (13) crosses the axis (11) of the drawing pin. The drawing pins of a plurality of processing stations are attached to a common support (12), which may also act as receptacle for a liquid to be evaporated. <IMAGE>

IPC 1-7  
**D02J 1/22**

IPC 8 full level  
**D02J 1/22** (2006.01)

CPC (source: EP)  
**D02J 1/22** (2013.01)

Citation (search report)  
• [AD] DE 3705105 A1 19870917 - BARMAG BARMER MASCHF [DE]  
• [A] US 2289232 A 19420707 - FRIEND BABCOCK DALE  
• [A] NL 6707777 A 19671204  
• [A] DE 2454477 A1 19760520 - VEPA AG

Cited by  
US5311650A; DE4120839C1; US5251364A

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CH DE ES FR GB IT LI

DOCDB simple family (publication)  
**EP 0298316 A2 19890111; EP 0298316 A3 19901114; EP 0298316 B1 19930901; DE 3883647 D1 19931007**

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