

Title (en)  
Melt spinning apparatus

Title (de)  
Schmelzspinnvorrichtung

Title (fr)  
Dispositif pour le filage au fondu

Publication  
**EP 1505180 A1 20050209 (EN)**

Application  
**EP 04017007 A 20040719**

Priority  
JP 2003201215 A 20030724

Abstract (en)  
The present invention provides a melt spinning apparatus that executes spinning so as to obtain a uniform multifilament yarn having a uniform fineness. <??>A melt spinning apparatus includes a plurality of spinning packs 2 installed in a pack housing 33 contained in a spinning beam 1, the spinning packs 2 being arranged in a line, an integral cooling wind supply box 15 provided below the plurality of spinning packs 2 so as to be shared by the spinning packs 2, and filament cooling cylinders 44 each comprising cylindrical filters 8 and 9 and provided inside the cooling wind supply box 15 in association with the respective spinning packs. The melt spinning apparatus is characterized in that a first seal mechanism is used to seal a top portion and a bottom portion of each of the filament cooling cylinders 44 from a top plate and a bottom plate, respectively, of the cooling wind supply box 15, and a second seal mechanism 20 is used to seal the top portion of the filament cooling cylinder 44 from a bottom surface of the pack housing 33 via spacers 5 and 35 (Fig.1). <IMAGE>

IPC 1-7  
**D01D 5/092**; **D01D 5/08**

IPC 8 full level  
**D01D 4/02** (2006.01); **D01D 4/08** (2006.01); **D01D 5/08** (2006.01); **D01D 5/092** (2006.01)

CPC (source: EP KR)  
**D01D 4/025** (2013.01 - KR); **D01D 5/08** (2013.01 - EP); **D01D 5/092** (2013.01 - EP KR)

Citation (search report)  
• [DA] WO 0179594 A1 20011025 - BARMAG BARMER MASCHF [DE], et al  
• [A] US 4681522 A 19870721 - LENK ERICH [DE]  
• [A] GB 2135629 A 19840905 - BARMAG BARMER MASCHF  
• [A] US 3257487 A 19660621 - DULIN JR GRADY N

Cited by  
EP3647472A4; CN107119335A; DE102013213344A1; CN112111801A; US11225739B2; EP2392698A1; WO2021028851A1; DE102008045756A1; DE202008015315U1; DE102011117458A1; WO2013064588A1

Designated contracting state (EPC)  
CH DE IT LI TR

DOCDB simple family (publication)  
**EP 1505180 A1 20050209**; **EP 1505180 B1 20090930**; CN 1300390 C 20070214; CN 1576402 A 20050209; DE 602004023358 D1 20091112; JP 2005042227 A 20050217; JP 3868404 B2 20070117; KR 100607551 B1 20060802; KR 20050012177 A 20050131

DOCDB simple family (application)  
**EP 04017007 A 20040719**; CN 200410054589 A 20040723; DE 602004023358 T 20040719; JP 2003201215 A 20030724; KR 20040057637 A 20040723