

Title (en)
Melt spinning apparatus

Title (de)
Schmelzspinnvorrichtung

Title (fr)
Dispositif pour le filage au fondu

Publication
EP 1505180 B1 20090930 (EN)

Application
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Abstract (en)
[origin: EP1505180A1] 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>

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

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