

Title (en)  
Multilobal hollow filaments having stiffening ribs and stiffening webs

Title (de)  
Multilobale Hohlfilamente mit Versteifungsrippen und Versteifungszonen

Title (fr)  
Filaments creux multilobés ayant des nervures et des zones de raidissement

Publication  
**EP 0982414 B1 20040428 (EN)**

Application  
**EP 98116225 A 19980827**

Priority  
EP 98116225 A 19980827

Abstract (en)  
[origin: EP0982414A1] A hollow thermoplastic synthetic polymer filament includes a core portion having N number (typically, three or four) lobes joined thereto. Stiffening ribs are formed in the core portion. The stiffening ribs cooperate to define at least N hollow regions in the core portion. The hollow regions may communicate or be isolated from each other. Each lobe has at least one transverse stiffening web therein that prevents the lobe lateral edges from being deformed towards the exterior of the filament. The major portion of each lateral edge of each lobe may be substantially linear or convexly curved over substantially its entire length. A spinneret plate for producing the filament is also disclosed. <IMAGE>

IPC 1-7  
**D01D 5/24**; **D01D 5/253**

IPC 8 full level  
**A47G 27/02** (2006.01); **D01D 5/24** (2006.01); **D01D 5/253** (2006.01); **D02G 3/44** (2006.01)

CPC (source: EP)  
**D01D 5/24** (2013.01); **D01D 5/253** (2013.01)

Cited by  
CN111118770A; US6673450B2

Designated contracting state (EPC)  
BE DE FR GB IT

DOCDB simple family (publication)  
**EP 0982414 A1 20000301**; **EP 0982414 B1 20040428**; AU 6021499 A 20000321; AU 749162 B2 20020620; CA 2336903 A1 20000309; DE 69823497 D1 20040603; DE 69823497 T2 20050407; JP 2002523645 A 20020730; WO 0012789 A1 20000309

DOCDB simple family (application)  
**EP 98116225 A 19980827**; AU 6021499 A 19990825; CA 2336903 A 19990825; DE 69823497 T 19980827; JP 2000567767 A 19990825; US 9919610 W 19990825