

Title (en)  
PROCESS AND APPARATUS FOR THE MANUFACTURE OF POLYMER FIBRILS

Publication  
**EP 0000620 B1 19811111 (EN)**

Application  
**EP 78300087 A 19780627**

Priority  
US 81203177 A 19770701

Abstract (en)  
[origin: US4125584A] {PG,1 Centrifugal spinning apparatus is provided for the manufacture of fibrils from hot viscous hydrocarbon solutions of olefin polymers having an intrinsic viscosity of at least 3.5. The apparatus consists of an impeller which rotates at high speed in a cylindrical cavity having a discharge port. The impeller has a plurality of blades whose narrow dimensions lie substantially in the plane of the impeller's rotation and whose tips come in close proximity to the inner peripheral surface of the cylindrical cavity. The blades are arranged in at least two substantially-identical sets. Within each set, the blades are offset substantially equidistant from one another, both in the rotational plane of the impeller and in the plane transverse thereto. Two inlet ports are provided in the peripheral surface of the cylindrical cavity to feed liquids to the cylindrical cavity, each of which port is narrow in a plane transverse to the plane of the impeller's rotation and extends over substantially the entire peripheral surface. The inlet ports are positioned near the discharge port of the cylindrical cavity and upstream thereof viewed with respect to the impeller's rotation, so that the bulk of the liquids entering the cavity from the inlet ports are swept away from the discharge port by the impeller's rotation.

IPC 1-7  
**D01D 5/18**; C08L 23/00

IPC 8 full level  
**D01F 6/04** (2006.01); **D01D 5/18** (2006.01); **D01D 5/40** (2006.01)

CPC (source: EP US)  
**D01D 5/18** (2013.01 - EP); **D01D 5/40** (2013.01 - EP US); **Y10S 264/47** (2013.01 - EP US)

Cited by  
DE3434230A1

Designated contracting state (EPC)  
DE FR GB NL SE

DOCDB simple family (publication)  
**US 4125584 A 19781114**; CA 1101163 A 19810519; DE 2861309 D1 19820114; EP 0000620 A1 19790207; EP 0000620 B1 19811111; JP S5434417 A 19790313; NO 782282 L 19790103

DOCDB simple family (application)  
**US 81203177 A 19770701**; CA 305837 A 19780620; DE 2861309 T 19780627; EP 78300087 A 19780627; JP 7881278 A 19780630; NO 782282 A 19780630