

Title (en)  
BIFUNCTIONAL POLYMERS

Title (de)  
BIFUNKTIONELLE POLYMERE

Title (fr)  
POLYMERES BIFONCTIONNELS

Publication  
**EP 1171492 B1 20030903 (EN)**

Application  
**EP 99967997 A 19991222**

Priority  
• IB 9902101 W 19991222  
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• US 28674599 A 19990406

Abstract (en)  
[origin: WO0059965A1] Novel polymers are provided having phosphonated and sulphonated substituent groups such that the polymer is multifunctional in its use. Optional amide substituents are used to reduce electrostatic charge density or for hydrogen bonding. An advantage of the polymer is the flexibility of using it for multiple purposes. A particular application is for bonding paper fillers and paper fiber together.

IPC 1-7  
**C08F 230/02**; C08F 228/02; C08F 8/40; D21H 17/34

IPC 8 full level  
**C08L 101/02** (2006.01); **C08F 8/34** (2006.01); **C08F 8/40** (2006.01); **C08F 220/54** (2006.01); **C08F 220/58** (2006.01); **C08F 230/02** (2006.01); **C08L 97/00** (2006.01); **D21H 17/34** (2006.01); **D21H 17/45** (2006.01); **D21H 21/10** (2006.01); **D21H 21/18** (2006.01)

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