Title (en)
METHOD OF GRAFTING FUNCTIONAL GROUPS TO SYNTHETIC POLYMERS FOR MAKING BIODEGRADABLE PLASTICS

Title (de)
VERFAHREN ZUM PFROPFEN VON FUNKTIONELLEN GRUPPEN AUF SYNTHETISCHEN POLYMEREN FÜR DIE HERSTELLUNG VON BIOABBAUBAREN KUNSTSTOFFEN

Title (fr)
PROCEDE PERMETTANT DE GREFFER DES GROUPES FONCTIONNELS A DES POLYMERES SYNTHETIQUES POUR FABRIQUER DES PLASTIQUES BIODEGRADABLES

Publication
EP 0843692 A1 19980527 (EN)

Application
EP 97927935 A 19970602

Priority
• US 9709543 W 19970602
• US 66270196 A 19960613

Abstract (en)
[origin: WO9747670A1] The invention provides a graft copolymer made by grafting a monomer containing a functional group to a polyester macromolecule using an addition reaction or a substitution reaction. The invention further provides a biodegradable composition that is made by melt blending the graft copolymer and a natural polymer, such as starch or protein. The invention further includes a method of making the graft copolymer using an addition reaction or a substitution reaction and a method for making the biodegradable composition by melt blending the graft copolymer and a natural polymer at an elevated temperature.

IPC 1-7
C08F 283/02; C08L 51/08; C08L 67/02; C08G 63/91

IPC 8 full level
C08F 283/02 (2006.01); **C08G 63/91** (2006.01); **C08L 1/00** (2006.01); **C08L 3/00** (2006.01); **C08L 51/08** (2006.01); **C08L 67/04** (2006.01); **C08L 89/00** (2006.01); **C08L 101/16** (2006.01)

CPC (source: EP)
C08F 283/02 (2013.01); **C08G 63/91** (2013.01); **C08L 51/08** (2013.01)

Citation (search report)
See references of WO 9747670A1

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9747670 A1 19971218; AR 007789 A1 19991124; AU 3227297 A 19980107; CA 2226946 A1 19971218; EP 0843692 A1 19980527; JP H11511804 A 19991012

DOCDB simple family (application)
US 9709543 W 19970602; AR P970102587 A 19970613; AU 3227297 A 19970602; CA 2226946 A 19970602; EP 97927935 A 19970602; JP 50166298 A 19970602