

Title (en)  
MOULDING MIXTURE FOR MANUFACTURE OF MOULDBLE PRODUCT

Title (de)  
FORMMASSE UND HERSTELLUNG VON EINEM FORMBAREN PRODUKT

Title (fr)  
MELANGE DE MOULAGE CON U POUR LA FABRICATION DE PRODUITS MOULABLES

Publication  
**EP 1317508 A2 20030611 (EN)**

Application  
**EP 01970489 A 20010907**

Priority  
• SG 0100178 W 20010907  
• SG 200005117 A 20000909  
• SG 200104759 A 20010808

Abstract (en)  
[origin: WO0220667A2] The present invention relates to a moulded product. The moulded product may be manufactured by a process comprising the following steps: (a) preparing a moulding mixture by: (i) taking 40 to 60 wt.% plant fibre pieces and optionally combining added starch with the plant fibre pieces; and (ii) adding thereto 10 to 55 wt.% water and 3 to 10 wt.% one or more water-soluble binding agents or adhesives: (b) pouring the mixture into a mould the mould being a temperature of at least 60 DEG C; (c) subjecting the mixture in the mould to a temperature in the range of 15 to 60 DEG C and a pressure in the range from 1000 to 7000 PSI for a period of time such taht a portion of the water in the mixture is converted to steam which causes the mixture to fill the mould while remaining in a mouldable state; (d) reducing the pressure so that steam continues to form within the mould without causing an explosion whilst maintaining the mixture in a mouldable state; (e) increasing the temperature and pressure to a temperature in the range from 100 o 200 DEG C and a pressure in the range of 500 to 1500 PSI; (f) removing the steam or allowing the steam to escape until the moulded product is substantially dry; (g) removing the substantially dried and moulded product from the mould; the amount of starch added in between 0 and 10 wt. preferably 0 to 2 wt.% or 2 to 10 wt.%.

IPC 1-7  
**C08L 97/02**; **B27N 5/00**; **B27N 7/00**; **B29C 33/00**

IPC 8 full level  
**B27N 3/00** (2006.01); **B27N 3/08** (2006.01); **B27N 5/00** (2006.01); **B27N 7/00** (2006.01); **B29C 39/02** (2006.01); **C08K 3/26** (2006.01); **C08L 1/02** (2006.01); **C08L 97/00** (2006.01); **C08L 97/02** (2006.01); **C08L 101/16** (2006.01); **D21J 3/00** (2006.01); **B29K 1/00** (2006.01); **B29K 105/12** (2006.01)

CPC (source: EP)  
**B27N 3/002** (2013.01); **B27N 3/08** (2013.01); **B27N 5/00** (2013.01); **B27N 7/00** (2013.01); **C08L 1/02** (2013.01); **C08L 97/02** (2013.01); **D21J 3/00** (2013.01)

Citation (search report)  
See references of WO 0220665A2

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

DOCDB simple family (publication)  
**WO 0220667 A2 20020314**; **WO 0220667 A3 20020808**; **WO 0220667 A8 20020510**; AU 9048901 A 20020322; AU 9049001 A 20020322; AU 9049101 A 20020322; CA 2427527 A1 20020314; CA 2427530 A1 20020314; CN 1469907 A 20040121; CN 1469908 A 20040121; EP 1317508 A2 20030611; EP 1332180 A2 20030806; JP 2004508229 A 20040318; JP 2004508446 A 20040318; WO 0220665 A2 20020314; WO 0220665 A3 20020808; WO 0220666 A2 20020314; WO 0220666 A3 20020808

DOCDB simple family (application)  
**SG 0100180 W 20010907**; AU 9048901 A 20010907; AU 9049001 A 20010907; AU 9049101 A 20010907; CA 2427527 A 20010907; CA 2427530 A 20010907; CN 01817240 A 20010907; CN 01817375 A 20010907; EP 01970489 A 20010907; EP 01970490 A 20010907; JP 2002525676 A 20010907; JP 2002525677 A 20010907; SG 0100178 W 20010907; SG 0100179 W 20010907