

Title (en)  
Process for upgrading low-quality wood.

Title (de)  
Verfahren zur Verbesserung von Holz niedriger Qualität.

Title (fr)  
Procédé de valorisation de bois de basse qualité.

Publication  
**EP 0623433 A1 19941109**

Application  
**EP 94201159 A 19940427**

Priority  
EP 93201237 A 19930429

Abstract (en)  
A process for upgrading low-quality wood to high-quality wood, comprising: a) a softening stage, wherein one or more sections of low-quality wood are heated to a temperature in the range of from 160 to 240 DEG C in the presence of an aqueous medium and at a pressure which is at least the equilibrium vapour pressure of said aqueous medium at the operating temperature, thereby at least partially hydrolysing the hemicellulose and disproportionating the lignin present in said wood, b) a dewatering stage, and c) a curing stage, characterised in that the softening stage is conducted in the presence of an aqueous pH buffer, having a pH in the range of from 3.5 to 8.

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**B27K 5/06**; **B27N 1/00**

IPC 8 full level  
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CPC (source: EP)  
**B27K 5/001** (2013.01); **B27K 5/06** (2013.01); **B27N 1/00** (2013.01)

Citation (search report)  
• [DA] EP 0373725 A2 19900620 - SHELL INT RESEARCH [NL]  
• [A] EP 0197674 A1 19861015 - FAVOT PETER

Cited by  
US8465845B2; EP2476526A1; CN104960052A; CN106272815A; CN103753661A; CN105946068A; FR2751580A1; US5901463A; NL2000405C2; US2010143739A1; EP2707184A4; DE102009047137A1; WO2008079000A1; WO9804393A1; DE102011104025A1; DE102015013450A1; JP2010513085A

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