

Title (en)
PRODUCTION OF CELLULOSE CARBAMATE

Title (de)
CELLULOSECARBAMATHERSTELLUNG

Title (fr)
PRODUCTION DE CARBAMATE DE CELLULOSE

Publication
EP 0910585 A1 19990428 (DE)

Application
EP 97930510 A 19970708

Priority
• DE 19628277 A 19960712
• EP 9703593 W 19970708

Abstract (en)
[origin: DE19628277A1] A method of producing cellulose carbamate is described in which: (a) cellulose is brought into contact with liquid ammonia at an initial pressure exceeding atmospheric pressure and a temperature of at least about 25 DEG C, in the presence of urea, the quantity of liquid ammonia sufficing at least to wet the surface of the cellulose; (b) the volume available to the cellulose-urea-liquid ammonia system is enlarged explosively, lowering the pressure by at least 5 bar, and an activated mixture of cellulose and urea is obtained; (c) the activated mixture of cellulose and urea is taken up in an inert organic carrier for the reaction, and heated to a temperature between about 110 DEG C and 150 DEG C to make cellulose carbamate, and (d) the organic reaction carrier and any urea not reacted are removed from the cellulose carbamate obtained. The method saves energy and supplies a very homogenous cellulose carbamate.

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C08B 15/06

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C08B 1/00 (2006.01); **C08B 15/06** (2006.01)

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Citation (search report)
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