



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
15.07.2009 Bulletin 2009/29

(51) Int Cl.:
D21C 3/00 (2006.01) **D21C 3/22** (2006.01)
D21C 7/00 (2006.01) **D21C 1/00** (2006.01)
D21C 7/14 (2006.01)

(43) Date of publication A2:
18.06.2008 Bulletin 2008/25

(21) Application number: **07446011.4**

(22) Date of filing: **07.12.2007**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR
Designated Extension States:
AL BA HR MK RS

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(30) Priority: **13.12.2006 SE 0602675**

(54) **A method for producing cellulose pulp in a continuous digester in an energy-efficient manner**

(57) The invention describes a method for producing cellulose pulp in a continuous digestion system in an energy-efficient manner. Cellulose chips are fed continuously with a transfer liquid in a transfer line (11) to a top separator (20) arranged at the top of a digester (30), for the separation of free liquid from the cellulose chips. The top separator has a withdrawal space (21) in which free liquid collects. At least a fraction of the free liquid that

has separated, with a temperature T_{ut} , is led in a return line (32) from the withdrawal space of the top separator to a position to be used as transfer liquid. At least one pressurised withdrawal of black liquor is carried out in the digester (30) essentially at the cooking temperature of at least 135 °C. The invention is characterised in that an additive liquid with a temperature T_{in} is added at the withdrawal space (21) of the top separator, where $T_{in} > T_{ut}$.

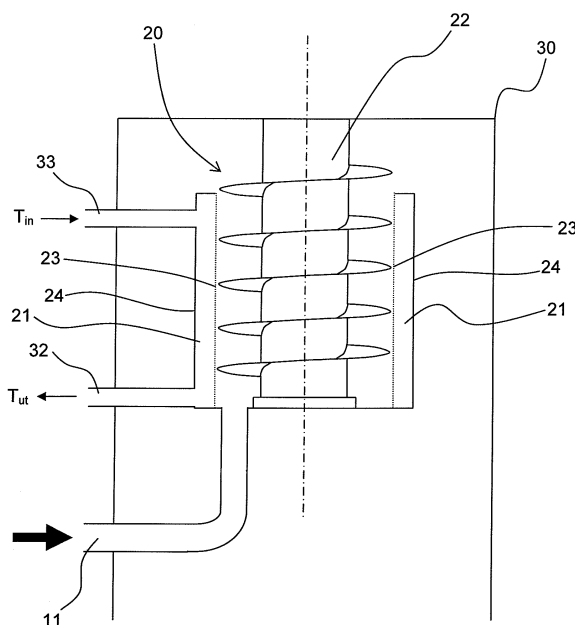


Fig. 4



EUROPEAN SEARCH REPORT

Application Number
EP 07 44 6011

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Place of search Munich		Date of completion of the search 2 June 2009	Examiner Ponsaud, Philippe
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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EPO FORM 1503 03 82 (P04C01)

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