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(54) Title: HIGH TEMPERATURE THERMAL MODIFICATION PROCESS OF WOOD IN A VACUUM AUTOCLAVE

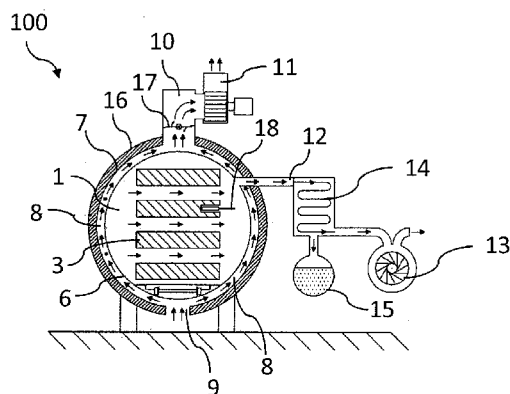


FIG. 1a

(57) Abstract: A process for the thermal-chemical modification treatment of wood is described, in which such a modification is obtained through multiple chemical reactions of the substances comprising the wood structure generated by exposing the wood to temperatures at which the pyrolysis phenomenon begins, i.e., in the range of 180 °C-240 °C, in a vacuum autoclave-cell while always maintaining the internal pressure lower than the atmospheric pressure, in a range of values of 70-350 mBar of absolute pressure, consisting in the steps of pre-heating, actual heat treatment, and cooling of a wood mass.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

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A	WO 01/85410 A1 (NPC IND B V I O [NL]; MICHON SANDER GERMAIN LEON [NL]) 15 November 2001 (2001-11-15) page 3, line 26 - page 4, line 7; claims 1, 2, 5, 9 page 6, lines 10-12 -----	1-8
A	EP 2 269 787 A1 (HERBERT HAGENSIEKER SAEGEWERK GMBH [DE]) 5 January 2011 (2011-01-05) claim 1 -----	1-8
X	US 2003/068258 A1 (CHUNG SHYAN-LUNG [TW] ET AL) 10 April 2003 (2003-04-10) paragraphs [0015], [0016], [0020]; figures 1, 4 ----- -/--	9,12-14



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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
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X	FR 2 786 424 A1 (ARIMPEX SARL [FR]) 2 June 2000 (2000-06-02) claims 4, 6, 8; figures 1, 4 -----	9-11

INTERNATIONAL SEARCH REPORT

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