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(71) Applicant (for all designated States except US): Limited Liability Company "PROF BUSINESS" [RU/RU]; Egorievsky proezd, 3A-1, Moscow, 109382 (RU).

(72) Inventors; and

(75) Inventors/Applicants (for US only): DAVIDOV Evgeni Rubenovich [RU/RU]; Dmitrovskoe highway, 45-3-58, Moscow, 127550 (RU). KANYGIN, Petr Sergeevich

[RU/RU]; Lenina street, 81-10, Kolomna, Moscow region, 140411 (RU). FRAKIN, Oleg Anatolievich [RU/RU]; Orehovy boulevard, 23-1-24, Moscow, 115563 (RU). CHEREMNOV, Igor Vladimirovich [RU/RU]; Vladimirskaia street, 1, Borzye village, Istrinskiy district, Moscow region, 143581 (RU).

(74) Agent: TSETOVICH, Natalia Leonidovna; Lavochkina street, 50-1-24, Moscow, 125502 (RU).

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(54) Title: PROCESS AND SYSTEM FOR EXTRACTION OF BIOACTIVE COMPOUNDS FROM PLANT MATERIAL

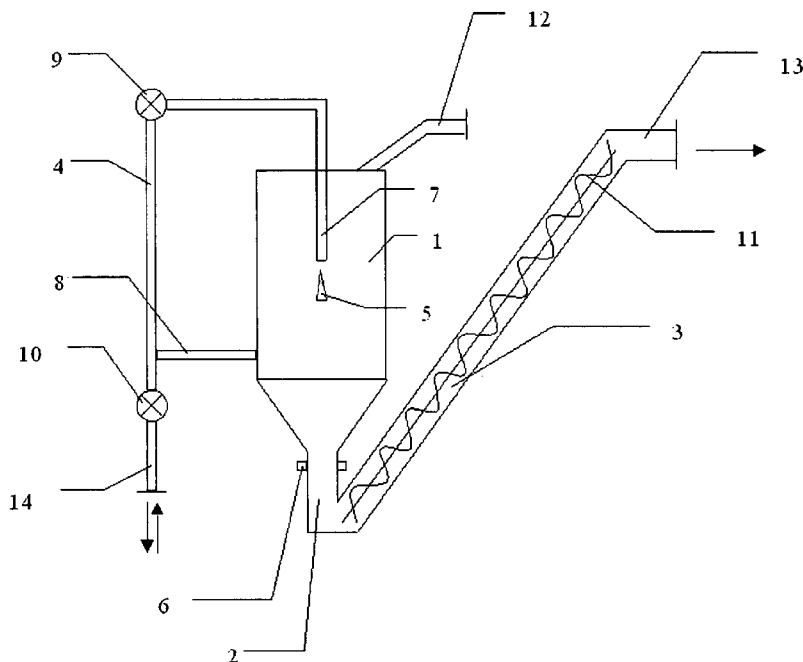


FIG.1

(57) Abstract: The present invention relates to an improved process for the ultrasound-assisted extraction of valuable components, particularly hardly-extractable components, with organic solvents from solid plant material, for example pitch from wood raw material, bioactive substances from roots, pits, kernels, seeds, shells, peelings. Also the invention relates to a system for extraction.





GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

B01D

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 practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 847 451 A (BENDIX AVIAT CORP) 7 September 1960 (1960-09-07)	10-12
Y	the whole document	1-9
Y	FR 1 206 646 A (CURTISS WRIGHT CORP) 10 February 1960 (1960-02-10) page 5, paragraph 1; figure 5 page 1, paragraph 1	1-9
A	US 3 835 061 A (BURKE O) 10 September 1974 (1974-09-10) column 6, lines 40-42; claim 3	1-12
A	DE 37 03 777 A1 (SIEMENS AG [DE]) 18 August 1988 (1988-08-18) column 7, lines 27-56; figure 3	1-12
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 Further documents are listed in the continuation of Box C. See patent family annex.

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Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040,
Fax: (+31-70) 340-3016

Authorized officer

Haderlein, Andreas

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	COTTELL, E.C.: "Developments in Liquid Whistles and Associated Systems" IEEE TRANSACTIONS ON ULTRASONICS ENGINEERING, September 1963 (1963-09), pages 88-90, XP002586025 the whole document -----	1-12

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
GB 847451	A	07-09-1960	NONE
FR 1206646	A	10-02-1960	NONE
US 3835061	A	10-09-1974	NONE
DE 3703777	A1	18-08-1988	NONE