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[Continued on next page]

(54) Title: ROLLER MILL AND PROCESS FOR GRINDING ALIMENTARY GRAINS

(57) Abstract: Roller mill for grinding alimentary grains has at least one pair of counter-rotating grinding rollers each controlled by an independent motor.

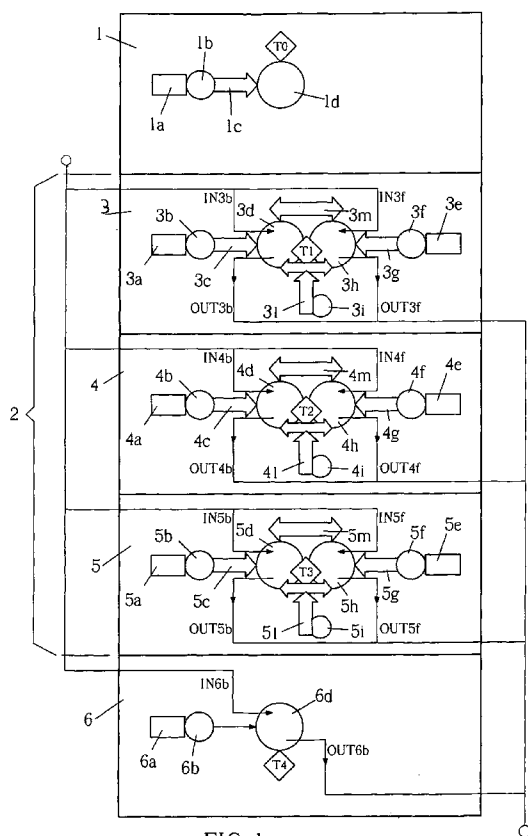


FIG. 1



FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL,
NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG,
CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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- *of inventorship (Rule 4.17(iv))*

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INTERNATIONAL SEARCH REPORT

International application No

PCT/EP2008/008396

A. CLASSIFICATION OF SUBJECT MATTER
INV. B02C4/06 B02C4/42

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)
B02C

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, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2007/170291 A1 (NAGANAWA MAURO M [BR]) 26 July 2007 (2007-07-26) page 1, paragraph 1 page 1, paragraph 9 - paragraph 13 page 2, paragraph 18 - paragraph 21 page 2, paragraph 25 - page 3, paragraph 41 figures 1-3	1-14
X A	EP 1 721 673 A (LEHMANN MASCHF F B [DE]) 15 November 2006 (2006-11-15) column 1, paragraph 1 column 2, paragraph 5 - column 3, paragraph 10 column 4, paragraph 16 - column 6, paragraph 24 figures 1,2	1-4, 11-14 5-10

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"Z" document member of the same patent family

Date of the actual completion of the international search

19 January 2009

Date of mailing of the international search report

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Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No

PCT/EP2008/008396

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	DE 10 2005 037387 A1 (LEHMANN MASCHF F B [DE]) 15 February 2007 (2007-02-15) page 2; paragraph 1 page 3, paragraph 24 - paragraph 25 page 4, paragraph 27 page 4, paragraph 32 - paragraph 35 figures 1-3 -----	1-4, 11-14 5-10
X	DE 764 930 C (SIEMENS AG) 25 January 1954 (1954-01-25) page 1, left-hand column, line 1 - line 3 page 1, left-hand column, line 19 - right-hand column, line 90 figure -----	1-4, 11, 12
A	US 4 655 400 A (ERB WILLIAM W [US] ET AL) 7 April 1987 (1987-04-07) the whole document -----	1-14

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2008/008396

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 17
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 17
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers allsearchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search reportcovers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

see additional sheet(s)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Claims Nos.: 17

Continuation of Box II.2

Claims Nos.: 17

Claim 17 contains references to the description. It is unclear which technical features, necessary for the invention, are claimed. According to Rule 6.2(a) PCT, claims should not contain such references except where absolutely necessary, which is not the case here. Claim 17 has therefore to be omitted.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.2), should the problems which led to the Article 17(2)PCT declaration be overcome.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-14

Roller mill having at least one pair of counter-rotating grinding rollers each roller controlled by an independent motor and process for grinding alimentary grains with such a roller mill

2. claims: 15,16

Process for grinding alimentary grains with a roller mill wherein the process parameters are adjusted by detecting the temperature of said grains and/or their particle size downstream of each grinding sub-section.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2008/008396

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2007170291	A1	26-07-2007	NONE	
EP 1721673	A	15-11-2006	DE 102005022378 A1	11-01-2007
DE 102005037387	A1	15-02-2007	NONE	
DE 764930	C	25-01-1954	NONE	
US 4655400	A	07-04-1987	CA 1261804 A1	26-09-1989