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Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) **Date of publication of the international search report:**
1 March 2012

(54) **Title:** PAPER SHREDDER WITH FEEDER

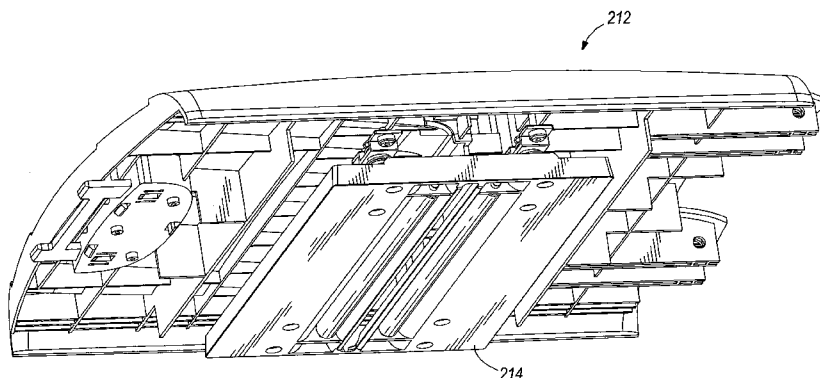


FIG. 9

(57) **Abstract:** A paper shredder comprising a housing, cutters positioned in the housing, a feeder base coupled to the housing and including a feeder slot, and a pressure plate mounted for movement above the feeder base. The pressure plate has a length perpendicular to the feeder slot that is less than 80% of a length of the feeder base. In one embodiment, the pressure plate includes two rollers positioned on opposing sides of the feeder slot (e.g., rotational about axes fixed relative to each other). The pressure plate preferably does not overlap with any aperture(s) in the feeder base. The paper shredder can also include a feeder door that substantially covers the entire feeder base and is pivoted at one end of the feeder door. The pressure plate can be mounted adjacent a bottom surface of the feeder door.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
INV. B02C18/00 B02C18/22
ADD.
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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2005/274836 A1 (CHANG FRANK [TW]) 15 December 2005 (2005-12-15) the whole document	1-19
A	WO 01/54820 A1 (DAHLE BUERO TECHNIK [DE]; WEBER BRUNO [DE]; DAHLE GERD [DE]; BUTZ JOCH) 2 August 2001 (2001-08-02) the whole document	1-19
A	US 2006/249609 A1 (HUANG SIMON [TW]) 9 November 2006 (2006-11-09) the whole document	1-19
X	US 2010/032507 A1 (CHEN XINXIONG [CN]) 11 February 2010 (2010-02-11)	10
A	figures 3-9	1-9, 11-19
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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
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- "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
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- "&" document member of the same patent family

Date of the actual completion of the international search 6 December 2011	Date of mailing of the international search report 20/12/2011
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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 Kopacz, Ireneusz
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INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2011/000651

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2010/032505 A1 (JENSEN MICHAEL DALE [US] ET AL) 11 February 2010 (2010-02-11) the whole document	1-19
A	----- EP 0 281 136 A2 (SHARP KK [JP]) 7 September 1988 (1988-09-07) the whole document	1-19
A	----- DE 27 31 247 A1 (HATANAKA TAKEFUMI) 9 November 1978 (1978-11-09) the whole document	1-19

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/IB2011/000651

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2005274836 A1	15-12-2005	US 2005274836 A1 US 2010096482 A1	15-12-2005 22-04-2010
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INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2011/000651

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.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
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:

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 all searchable 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 report covers 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.:

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

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

1. claims: 1-9

A paper shredder with a pressure plate

2. claims: 10-19

A paper pressure with a feeder assembly
