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(54) Thickness detecting safety shredder

(57) A thickness detecting system for a paper shredder having a lever arm extending into the shredder's throat. One or more sensors may be in communication with the lever arm and configured to measure the rotation of the lever. A first maximum thickness and second maximum thickness may correspond to the paper inserted into the throat before and during shredder, respectively. Circuitry may reverse the motor when the thickness is exceeded to ease the removal of the paper and to prevent further shredding. A touch structure and the preferential power supply switch may be used to engagingly interact with each other, so that the motor can be switched off when the plate is selectively positioned to close the paper feed opening, can be switched on when the plate is selectively positioned to open the feed opening, and can be switched off when unexpected items are introduced into the feed opening.

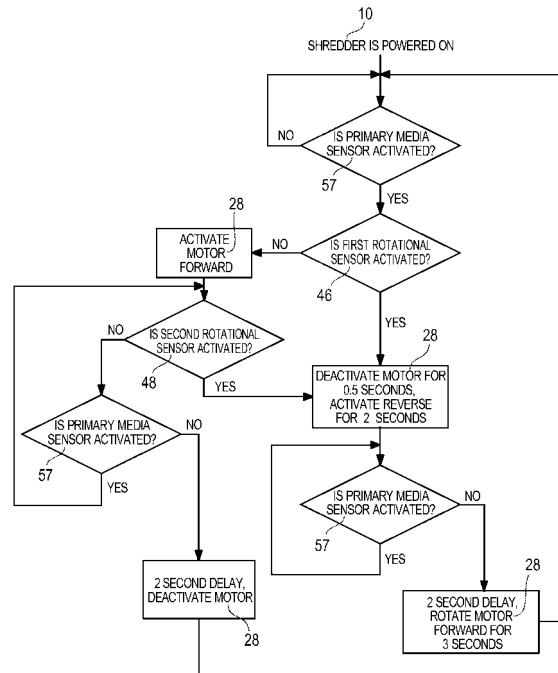


Fig. 8



EUROPEAN SEARCH REPORT

Application Number

EP 10 17 7201

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (IPC)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
A	US 2007/246582 A1 (ARIES PAUL ARTHUR [GB] ET AL) 25 October 2007 (2007-10-25) * the whole document * -----	1-16	INV. B02C18/00
A	EP 2 022 566 A2 (ACCO UK LTD [GB]) 11 February 2009 (2009-02-11) * the whole document * -----	1-16	
A	US 2009/090797 A1 (MATLIN TAI HOON [US] ET AL MATLIN TAI HOON K [US] ET AL) 9 April 2009 (2009-04-09) * the whole document * -----	1-16	
			TECHNICAL FIELDS SEARCHED (IPC)
			B02C
The present search report has been drawn up for all claims			
1	Place of search	Date of completion of the search	Examiner
	Munich	27 October 2011	Kopacz, Ireneusz
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone ✓ : 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			



CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

see additional sheet(s)

The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



**LACK OF UNITY OF INVENTION
SHEET B**

Application Number
EP 10 17 7201

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-16

A thickness detecting system

2. claim: 17

A system detecting system

ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

EP 10 17 7201

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on. The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

27-10-2011

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