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(54) Title: SYSTEM FOR IDENTIFYING TEXTUAL RELATIONSHIPS

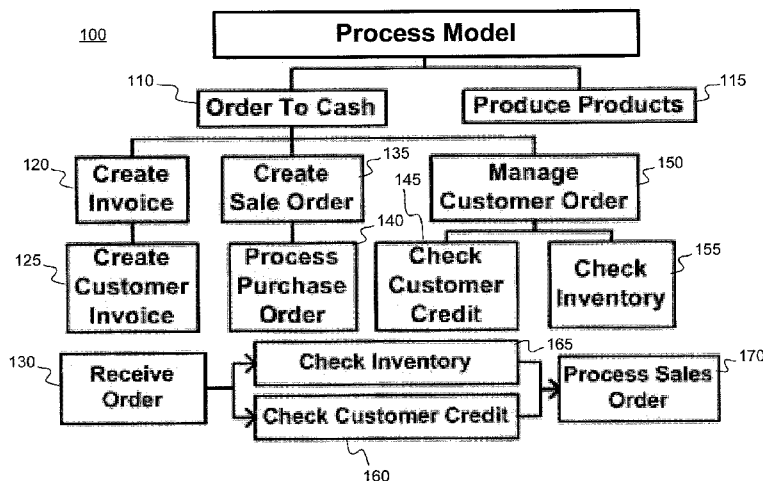


Fig. 1

(57) Abstract: A computer-implemented method identifies textual statement relationships. Textual statement pairs including a first and second textual statement are identified, and parsed word group pairs are extracted from first and second textual statements. The parsed word groups are compared, and a parsed word score for each statement pair is calculated. Word vectors for the first and second textual statements are created and compared. A word vector score is calculated based on the comparison of the word vectors for the first and second textual statements. A match score is determined for the textual statement pair, with the match score being representative of at least one of the parsed word score and the word vector score.

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C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2009/083677 A1 (DARWISH KAREEM MOHAMED [EG] ET AL) 26 March 2009 (2009-03-26) paragraph [0027] - paragraph [0041] -----	1-25
A	US 2007/106499 A1 (DAHLGREN KATHLEEN [US] ET AL) 10 May 2007 (2007-05-10) abstract -----	1-25
A,P	EP 2 362 333 A1 (ACCENTURE GLOBAL SERVICES LTD [IE]) 31 August 2011 (2011-08-31) the whole document ----- -/--	1
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
T	THAYASIVAM U ET AL: "Automatically Mapping Natural Language Requirements to Domain-Specific Process Models", AAI-11/IAAI-11, SAN FRANCISCO, USA, AAI, SAN FRANCISCO, CA, USA, 7 August 2011 (2011-08-07), page 1695, XP001565613, ISBN: 978-1-57735-507-6 -----	

INTERNATIONAL SEARCH REPORT

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2009083677	A1	26-03-2009	NONE
US 2007106499	A1	10-05-2007	NONE
EP 2362333	A1	31-08-2011	EP 2362333 A1 31-08-2011
			US 2011208734 A1 25-08-2011