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(54) Title: SYSTEM AND METHOD FOR KNOCK NOTIFICATION TO AN UNSOLICITED MESSAGE

(57) Abstract: A system and method is directed to providing a knock notification in response to a message from an unknown sender. The method includes maintaining a data store of message senders that an end-user has identified as an allowed sender. A received message is evaluated to determine whether its sender is an allowed sender. If the sender is an allowed sender, the received message is forwarded to the end-user. If it is determined that the sender is an unknown sender, a knock notification message is generated. In one embodiment, the knock notification message includes the information about the sender and a mechanism to enable the end-user to allow/disallow the sender. If the end-user disallows the sender, the received message is discarded. Information associated with the disallowed sender is included in a data store for disallowed senders. The end-user may review and revise the data stores of allowed and disallowed senders.



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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
WEST				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a	ppropriate	e, of the relevant passages	Relevant to claim No.
Y	US 2002/0199095 A1 (BANDINI et al) 26 December 2002 (26.12.2002), abstract, [0003]-			1-23
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Y,P	US 2003/0191969 A1 (KATSIKAS) 09 October 200	03 (09.10.2003), abstract, [0005]-[0012]. 1-23		
	(**************************************			
Y,P	US 2004/0015554 A1 (WILSON) 22 January 2004 (22.01.2004), abstract, [0023]-[0029].			1-23
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