SFDC 1008



Chart

Claim Chart of Kathleen A. Peters, "The Design of a Change Notification Server for Clients of a Passive Object-Oriented Database Management System" (July 1992) ("Peters")

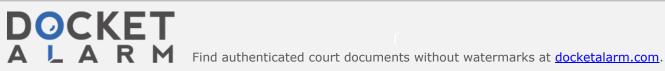
as prior art to

Asserted Claims of U.S. Patent No. 7,356,482 ("the '482 Patent")

'482 Patent	Peters Thesis
Claim 1	
A system for providing a dynamically generated application having one or more functions and one or more user interface	To the extent that this preamble is construed to be limiting, Peters discloses a system for providing a dynamically generated application having one or more functions and one or more user interface element. <i>See</i> , <i>e</i> . <i>g</i> .:
elements; comprising:	Peters at Abstract:
	"The major contributions of this thesis are its focus on object- oriented (as opposed to relational) data change, the design of a change notification server, and the description of a language used by clients to specify conditions of interest to monitor for change. Further, we present a model of version management, and describe how our notification server can complement an application where clients are versioning data."
	Peters at § 4.2 ("Railway Network Application"):
	"This application is the less-than-real-time operation of a simple railway monitoring and control system. Given a database containing a description of the railway network (e.g., <i>I</i> stations, track segments connecting stations), train schedules (e.g., routes through the network), and active train information (e.g., location, speed), various DB client processes monitor and offer control options for the movement of trains in the network."
	Peters at § 4.3 ("Document Co-Authoring Application"):
	"When a user is updating the text of an existing paragraph (generally, a long-term update), the DB object cannot be write-locked as this would delay concurrent reads. To allow concurrent reads and inform other users that the text is changing, the client process wanting to change a paragraph first performs a short-term update to set the specific paragraph's 'text-under-mod' variable to true. The notification server is informed by the client who



'482 Patent	PETERS THESIS
	performed the change that a committed update to 'text-undermod' took place. This information is passed on to interested clients (those who have issued the condition specification [I] above). When the updated text is committed some time later, interested clients are informed (again via [I] above). If the 'text-under-mod' variable is now false, then another client may begin a long-term text update; otherwise, the first client still has exclusive update access, but has chosen to let others see an intermediate result. , A non-conflicting concurrent update is allowed when a client is updating the text of a paragraph and another client wishes to change the 'next-p' variable of that paragraph (inserting a new paragraph, or rearranging paragraph order). The change to 'next-p' is a short-term update. The update- counter variable is used by the client process doing the long-term update to determine that a change has occurred to 'next-p' if notification does not reach it before the text update is committed."
	To the extent this reference does not teach this claim element, this reference in combination with the knowledge of one of ordinary skill in the art and the disclosures of each of the prior art references provided in Salesforce's Petitions related to the '482 and '111 Patents renders this claim element obvious.
[a] a server computer;	Peters discloses a server computer. See, e.g.:
	Peters at Abstract:
	"This thesis presents a comprehensive design specification for an object-oriented database management system (OODBMS) change notification server. Objectstore is used as the example underlying OODBMS.
	The major contributions of this thesis are its focus on object- oriented (as opposed to relational) data change, the design of a change notification server, and the description of a language used by clients to specify conditions of interest to monitor for change. Further, we present a model of version management, and describe how our notification server can complement an application where clients are versioning data."
	Peters at § 5.2:
	"All message passing between DB client processes and the notification server is done asynchronously."



'482 Patent	PETERS THESIS
	Peters at § 8.3 (including Figure 8-9):
	"To review, clients send one or more condition specifications to the notification server to indicate what DB changes they wish to be notified of, and they send a DB update event message to the notification server for each change made to application data after the change has been committed to the OODBMS. The notification server sends an acknowledge message to clients for each condition specification it receives, and the server sends a notification message to clients for each change they have indicated an interest in."
	To the extent this reference does not teach this claim element, this reference in combination with the knowledge of one of ordinary skill in the art and the disclosures of each of the prior art references provided in Salesforce's Petitions related to the '482 and '111 Patents renders this claim element obvious.
[b] one or more client computers connected to the	Peters discloses one or more client computers connected to the server computer over a computer network. <i>See, e.g.</i> :
server computer over a computer network;	Peters at Abstract:
	"One way to aid database clients in detecting change to shared data is to provide a notification mechanism which informs clients when the data they have an interest in has changed. Previous research has focused primarily on embedding change notification schemes in a database management system (DBMS).
	The major contributions of this thesis are its focus on object- oriented (as opposed to relational) data change, the design of a change notification server, and the description of a language used by clients to specify conditions of interest to monitor for change. Further, we present a model of version management, and describe how our notification server can complement an application where clients are versioning data."
	Peters at § 4.2 ("Railway Network Application"):
	"The client processes for this application are graphic user interfaces (GUIs) for train operators and station operators. There is one train operator GUI process for each active train. Each train operator GUI provides the following functions:



- display up-to-date train information (speed limit, current speed, current location, schedule) - ask for, and receive, permission to enter or leave a station - update current speed and/or location of the train. There are three station operator GUI processes: a master process which monitors the entire railway network and controls train schedules, and two region processes (west and east) which monitor subsections of the network and control the tracks and trains within their field of view. A station GUI provides some or all of the following functions (depending on whether the GUI is a master or a regional process): - display up-to-date network information (network diagram; train speed, location and direction of travel for each train) - receive requests, and grant permission, for trains to enter or leave a station - update train schedule - update train speed limit - update train some that segment status (open, closed)" Peters at § 4.3 ("Document Co-Authoring Application"): "When a user is updating the text of an existing paragraph (generally, a long-term update), the DB object cannot be write-locked as this would delay concurrent reads. To allow concurrent reads and inform other users that the text is changing, the client process wanting to change a paragraph first performs a short-term update to set the specific paragraph's 'text-under-mod' variable to true. The notification server is informed by the client who performed the change that a committed update to 'text-undermod' took place. This information is passed on to interested clients (those who have issued the condition specification [I] above). When the updated text is committed some time later, interested clients are informed (again via [I] above). If the 'text-under-mod' variable is now false, then another client may begin a long-term text update; otherwise, the first client still has exclusive update access, but has chosen to let others see an intermediate result.
change has occurred to 'next-p' if notification does not reach it before the text update is committed."



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