



**GUJARAT TECHNOLOGICAL UNIVERSITY  
(GTU)  
INNOVATION COUNCIL (GIC)  
Patent Search & Analysis Report  
(PSAR)**



**Date of Submission : 13/10/2019**

Dear Daruwala Mahammadtaaha Chandmahammad,

Studied Patent Number for generation of PSAR : 19BE7\_160410116023\_1

## **PART 1: PATENT SEARCH DATABASE USED**

1. Patent Search Database used	:	Google Patents
Web link of database	:	<a href="https://patents.google.com/">https://patents.google.com/</a>
2. Keywords Used for Search	:	stress,management,service
3. Search String Used	:	stress,management,service
4. Number of Results/Hits getting	:	100

## **PART 2: BASIC DATA OF PATENTED INVENTION /BIBLIOGRAPHIC DATA**

5. Category/ Field of Invention	:	
6. Invention is Related to/Class of Invention	:	This invention relates to data storage and retrieval, and, more particularly, to searchable indexes
6 (a) : IPC class of the studied patent	:	G06F17/30589
7. Title of Invention	:	Method and apparatus for stress management in a searchable data service
8. Patent No.	:	
9. Application Number	:	14/839,702
9 (a) : Web link of the studied patent	:	<a href="https://patents.google.com/patent/">https://patents.google.com/patent/</a>
10. Date of Filing/Application (DD/MM/YYYY)	:	02/25/2016
11. Priority Date (DD/MM/YYYY)	:	
12. Publication/Journal Number	:	
13. Publication Date (DD/MM/YYYY)	:	
14. First Filled Country : Albania	:	

**15. Also Published as**

Sr.No	Country Where Filled	Application No./Patent No.
1		

**16. Inventor/s Details.**

Sr.No	Name of Inventor	Address/City/Country of Inventor
1	Patrick W Ransil	US
2	Aleskey V Martynov	US
3	James S Larson	US
4	James R Collette	US
5	Robert Wai Chi Chu	US
6	Partha Saha	US

**17. Applicant/Assignee Details.**

Sr.No	Name of Applicant/Assignee	Address/City/Country of Applicant
1	Amazon Technologies	US

**18. Applicant for Patent is** : Company

**PART 3: TECHNICAL PART OF PATENTED INVENTION****19. Limitation of Prior Technology / Art**

Embodiments of the searchable data service may implement a distributed stress management mechanism that may provide functionality including, but not limited to, the automated monitoring of critical resources, analysis of resource usage, and decisions on and performance of actions to keep resource usage within comfort zones. In one embodiment, in response to usage of a particular resource being detected as out of the comfort zone on a node, an action may be performed to transfer at least part of the resource usage for the local resource to another node that provides a similar resource.

**20. Specific Problem Solved / Objective of Invention**

The searchable data service may provide a searchable index to a backend data store, and an interface to build and query the searchable index, that enables client applications to search for and retrieve locators for stored entities in the backend data store.

**21. Brief about Invention**

This invention relates to data storage and retrieval, and, more particularly, to searchable indexes for data stores. The Internet, sometimes called simply "the Net," is a worldwide system of computer networks in which a client at any one computer may, with permission, obtain information from any other computer. The most widely used part of the Internet is the World Wide Web, often abbreviated "WWW", which is commonly referred to as "the Web". The Web may be defined as all the resources (e.g., Web pages and Web sites) and clients on the Internet that use the Hypertext Transfer Protocol (HTTP) or variations thereof to access the resources. Data storage, storing data objects of various types for access by various applications, is a primary area of interest and development in computer systems and applications, networking, the Internet, and related technical areas. Conventionally, developers have either created their own data storage solutions for storing data objects, have leveraged off-the-shelf database products, such as an Oracle/MySQL database, to develop data storage solutions, or have relied on third-party providers for data storage solutions.

**22. Key learning Points**

Data storage  
Embodiment  
Update Operations  
Searchable Data Service Architecture

**23. Summary of Invention**

The searchable data service may provide a searchable index to a backend data store, and an interface. This invention relates to data storage and retrieval, and, more particularly, to searchable indexes for data stores. Embodiments of the searchable data service may implement a distributed stress management mechanism that may provide functionality including, but not limited to, the automated monitoring of critical resources, analysis of resource usage, and decisions on and performance of actions to keep resource usage within comfort zones. Embodiments of the present invention may be encoded upon one or more non-transitory computer-readable media with instructions for one or more processors or processing units to cause steps to be performed.

**24. Number of Claims** : 21

**25. Patent Status** : Other ( Pending )

**26. How much this invention is related with your IDP/UDP?**

< 70 %

**27. Do you have any idea to do anything around the said invention to improve it? (Give short note in not more than 500 words)**

A user-friendly natural language interface, such as a chat or messaging interface, may be used to "live chat" with one or more devices.  
Improve user end-user response time.  
Results from the execution of the one or more commands may be appropriately formatted for presentation to the user.