



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



Date of Submission : 18/09/2016

Dear **Pethani Akshay Dilipbhai**,

Studied Patent Number for generation of PSAR : **16BE7_130030116040_1**

PART 1: PATENT SEARCH DATABASE USED

- | | | |
|--|---|---|
| 1. Patent Search Database used | : | Google Patents |
| Web link of database | : | https://patents.google.com/ |
| 2. Keywords Used for Search | : | Election, Votting, Online |
| 3. Search String Used | : | Online election voting system |
| 4. Number of Results/Hits getting | : | 1683 |

PART 2: BASIC DATA OF PATENTED INVENTION /BIBLIOGRAPHIC DATA

- | | | |
|--|---|---|
| 5. Category/ Field of Invention | : | Computer/IT Engineering |
| 6. Invention is Related to/Class of Invention | : | Cloud Computing |
| 6 (a) : IPC class of the studied patent | : | G07C13/00 |
| 7. Title of Invention | : | Online election system |
| 8. Patent No. | : | US20020083126A1 |
| 9. Application Number | : | US09974111 |
| 9 (a) : Web link of the studied patent | : | https://patents.google.com/patent/US20020083126A1/en?q=election&q=votting&q=online |
| 10. Date of Filing/Application (DD/MM/YYYY) | : | 09/10/2001 |
| 11. Priority Date (DD/MM/YYYY) | : | 12/04/1999 |
| 12. Publication/Journal Number | : | CA2368121A1 |
| 13. Publication Date (DD/MM/YYYY) | : | 19/10/2000 |
| 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	Robert Best	USA
2	Alan Conder	USA

17. Applicant/Assignee Details.

Sr.No	Name of Applicant/Assignee	Address/City/Country of Applicant
1	Best Robert Angus	USA
2	Conder Alan William James	USA

18. Applicant for Patent is _____ : _____ Company

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

Elections are used to select representatives in many situations for example members of parliament or congress, local council members and members of a board of directors Elections can however place a large burden on resources, financial, human, time etc, and can be inconvenient to the electorate if voters have to disrupt their normal routines or go out of their way to participate In elections where voting is not compulsory, this inconvenience can lead to voter apathy and low voter participation rates. The present invention seeks to provide a system for conducting an election at greater convenience to voters and at lower cost to administrators

20. Specific Problem Solved / Objective of Invention

This invention relates to a system for voting, particularly for conducting an election, using a computer network.

21. Brief about Invention

An online election system has a database of registered votes. A voter accessing the election system through a server means end user interface verifies themselves by providing security information such as a unique identifier and password. The voter is then presented with a list of candidates and is prompted to indicate their vote which is then submitted to the sever. Confidentiality of a vote is ensured because all voter identification is removed from the vote when the vote is received at the server means and before the vote is stored and tallied. The privacy of the vote is further enhanced by encrypting communications between the server means and the user interface.

22. Key learning Points

I've learned that how to design a network for online voting system, about database of the voting system.

23. Summary of Invention

The invention broadly resides in a voting system including a computer network having server means and a plurality of user interfaces, said system either including.

- a) a registered voter database accessible by said server means and containing voter identification records for a plurality of registered voters;
- b) a voter verification system including means to receive identification information provided by a user at a user interface and means to determine if said user is a registered voter by matching said information provided by said user to a record contained in said registered voter database;
- c) means to display ballot information at a user interface;
- d) means by which a registered voter can indicate their vote at the user interface;
- e) means by which a registered voter can indicate their vote at the user interface;
- f) means by which a registered voter can submit their vote from the user interface to the Voting Server;
- g) means for tallying a plurality of votes submitted by a plurality of registered voters;
- h) wherein when a vote is received at the Voting Server all voter identification is removed from the vote, the vote is passed to the means for tallying and the registered voter who submitted the vote is flagged in said registered voter database as having voted

The functions of the Voter Server and the Voting Server may be carried out by one server, referred to herein as a host server Where this is the case, the invention may reside in an online election system including a computer network having a host server and a plurality of user interface,

said system firer including:a

registered voter database accessible by said host server and containing voter identification records for a plurality of registered voters;

a voter verification system including means to receive personal identification information provided by a user at a user interface and means to determine if said user is a registered voter by matching said personal information provided by said user to a record contained in said registered voter database;

means to display at a user interface election information including a list of election candidates

means by which a registered voter can indicate their vote at the use interface;

means by which a registered voter can submit their vote from the user interface to the host server;

means to prevent a registered voter from submitting more than one vote;

means for tallying a plurality of votes submitted by a plurality of registered voters;

wherein when a vote is received at the host server all voter identification is removed from the vote, the vote is passed to the means for tallying and the registered voter who submitted the vote is flagged as having voted.

Preferably, however, the functions of Voting Server and Voter Server are provided by separate servers on the network, with appropriate secure communication protocols.

Preferably communications between the servers and the user interfaces are encrypted.

Preferably the list of candidates displayed at a user interface is determined from one or more details contained in a registered voter's record,

24. Number of Claims : 35

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)

I've new idea to improve this system by linking this idea of patent with my project UniDoc System and we can linked this system with person's Aadhaar number / social security number and provide location independent voting system using computer networking and cloud computing using which a person can vote for his/her word from anywhere in the country.I will be implement my idea in my project.