



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



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Dear Jasani Darshit Shirishbhai,

Studied Patent Number for generation of PSAR : 16BE7\_130020107026\_4

### **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	:	student information, information management, student tracking system
3. Search String Used	:	student information management
4. Number of Results/Hits getting	:	5678

### **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	:	student information management
6 (a) : IPC class of the studied patent	:	G06Q10, G06Q10/00, G06Q10/10
7. Title of Invention	:	Institutional student tracking system
8. Patent No.	:	US20020178038A1
9. Application Number	:	US10106575
9 (a) : Web link of the studied patent	:	<a href="https://patents.google.com/patent/US20020178038A1/">https://patents.google.com/patent/US20020178038A1/</a>
10. Date of Filing/Application (DD/MM/YYYY)	:	26/03/2002
11. Priority Date (DD/MM/YYYY)	:	26/03/2002
12. Publication/Journal Number	:	US 2002/0178038 A1
13. Publication Date (DD/MM/YYYY)	:	28/11/2002
14. First Filled Country : Albania	:	United States

**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	Donald R Grybas	Bolingbrook, IL(US)

**17. Applicant/Assignee Details.**

Sr.No	Name of Applicant/Assignee	Address/City/Country of Applicant
1	Donald R Grybas	Bolingbrook, IL(US)

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

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

One of the disadvantages with existing software systems to track student records is that they are cumbersome and difficult for a user to learn and use. There are no mention any placement tracking capability.

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

An improved institutional student tracking system comprising in one form of the invention, a software system information that is divided into several modules that interact with each other to control student record management functions. In one embodiment, the system has a school module, a student module, a satisfactory academic progress module, a report module, a default management module, an attendance and grades module, and a utilities module. The system can also print a variety of reports such as performance reports, attendance reports, financial reports and other types of related reports

**21. Brief about Invention**

In the drawing:

FIG. 1 shows the institutional student tracking system's main menu;

FIG. 2 shows the institutional student tracking system's school module with the general tab selected;

FIG. 3 shows the institutional student tracking system's school module with the subjects tab selected;

FIG. 4 shows the institutional student tracking system's school module with the programs tab selected

FIG. 5 shows the institutional student tracking system's select courses module showing the select courses screen;

FIG. 6 shows the institutional student tracking system's school module with the admissions reps tab selected;

FIG. 7 shows the institutional student tracking system's school module with the lead sources tab selected

FIG. 8 shows the institutional student tracking system's lead sources list;

FIG. 9 shows the institutional student tracking system's school module with the employers tab selected;

FIG. 10 shows the institutional student tracking system's school module with the holidays tab selected;

FIG. 11 shows the institutional student tracking system's select student screen of the student module;

FIG. 12 shows the institutional student tracking system's student module with the general tab selected;

FIG. 13 shows the institutional student tracking system's student module with the prospect tab selected;

FIG. 14 shows the institutional student tracking system's student module with the tracking tab selected;

FIG. 15 shows the institutional student tracking system's student module with the enrollment tab selected;

FIG. 16 shows the institutional student tracking system's review enrollment status screen of the student module;

FIG. 17 shows the institutional student tracking system's student module with the attendance tab selected;

FIG. 18 shows the institutional student tracking system's student module with the

FIG. 19 shows the institutional student tracking system's student module with the accounts receivable tab selected;

FIG. 20 shows the institutional student tracking system's student module with the placement tab selected;

FIG. 21 shows the institutional student tracking system's satisfactory academic progress module;

FIG. 22 shows the institutional student tracking system's reports module;

FIG. 23 shows the institutional student tracking system's default management module;

FIG. 24 shows the institutional student tracking system's default management module for a selected student with the general student information tab selected;

FIG. 25 shows the institutional student tracking system's default management module for a selected student with the loan information tab

selected;

## 22. Key learning Points

Software systems to track student records of various types are known in the art. Such devices are typically used by schools or other institutions. Schools are commonly faced with the difficult task of collecting, storing, updating and productively using all of the student information available to the school. For example, classes need to be organized and scheduled, students need to have grades assigned and grade reports delivered, and student loans must be managed.

Previous software systems to track student records have some inherent disadvantages. One of the disadvantages with existing software systems to track student records is that they are cumbersome and difficult for a user to learn and use. They are also limited to programs that are Microsoft ® DOS based and are not available for use over the world wide computer network. Many existing systems are greatly limited by or have no marketing analysis capability. Also, existing systems are not easy to work with when generating reports based on the student data. They lack extensive holiday tracking capability and grading scales to record letter grades.

Another disadvantage is that they do not provide for student progress reports for students who change rates of attendance. Further, existing systems have limited or no placement tracking capability and limited or no student loan default management capability.

## 23. Summary of Invention

The institutional student tracking system ("ISTS") responds to the overwhelming need for a user friendly, year 2000 compliant software system for use by post secondary or other institutions to track student records.

The ISTS provides institutions with a state of the art system to monitor students' progress from their first interest in an institution, through the placement of those student graduates in the occupations for which they trained. An institution will have rapid and easy access to a prospective student's status, an enrolled student's academic progress, and accounts receivable information, as well as alumni placement information, and even student loan borrower's default management records.

Beyond basic student record tracking, the ISTS performs other invaluable school management functions. Institutions will have immediate access at their computers, monitors or other electronic data input and viewing device to every subject offered by the institution, every program of study offered by the institution, complete marketing performance reports on each admissions representative institutions employ, and a perpetual analysis of which types of advertising are best serving student recruitment needs. Institutions will also benefit from a daily schedule report identifying every prospective student who is scheduled for a consultation appointment, enrollment appointment or financial aid appointment on any date selected. And, the ISTS's document tracking reports provide an institution with an "at a glance" view of what important documents may be missing from a student's file. In addition, institutions get a variety of financial reports covering everything from complete outstanding receivables listings, to 90-10 calculations and unearned tuition summaries. These reports can be generated quickly when audit time arrives. The ISTS has been designed to take the burden away from student records administration.

24. Number of Claims : 23

25. Patent Status : Published Application

## 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)

In this type there are not mention student placement information,so there are also improvement this features of placement information of student. There are also not mention of security in student information,so there are provide good security of student information so not missuse of this information.