



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



**Date of Submission : 25/09/2016**

Dear Jadeja Harshvardhansinh Ghanshyamsinh,

Studied Patent Number for generation of PSAR : 16BE7\_130430116043\_2

## **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	:	appointment shop, Appointment scheduler, Appointment app
3. Search String Used	:	patent for appointment scheduler
4. Number of Results/Hits getting	:	9999

## **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	:	Appointment scheduling
6 (a) : IPC class of the studied patent	:	G06F19/327
7. Title of Invention	:	Appointment booking and scheduling system Abstract
8. Patent No.	:	US5848395A
9. Application Number	:	US08673728
9 (a) : Web link of the studied patent	:	<a href="https://patents.google.com/patent/US5848395A">https://patents.google.com/patent/US5848395A</a>
10. Date of Filing/Application (DD/MM/YYYY)	:	26/06/1996
11. Priority Date (DD/MM/YYYY)	:	23/03/1996
12. Publication/Journal Number	:	
13. Publication Date (DD/MM/YYYY)	:	08/12/1998
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	James William Hardie Edgar	86Beechwood Grove, Uphall Station, West Lothian EH54 50J, Scotland;
2	John Gathercole	47 Hillcrest Rise, Cookridge, Leeds LS16 7DJ, England;
3	Michael Alan Johnson	4 Highlands Edgar, lane, Chalfont St Peter, Gerrards Cross SL90DL, England;
4	Alistair Edward Aug Roycroft	Flat 1, 10 Rathen Road, Withington, Manchester M20 4GH, England;
5	Alan Smith	34 Lakelands Drive, Ladybridge, Bolton B134NN, England;
6	Donald Brian Webster	48 ,Lakeside, Bracknell, Berks RG42 2LE, England

**17. Applicant/Assignee Details.**

Sr.No	Name of Applicant/Assignee	Address/City/Country of Applicant
1	International Computers Ltd	London, United Kingdom

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

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

Appointment can be difficult without routing and location

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

An appointment booking and scheduling system is described, for booking appointments with operatives (e.g. service engineers) visiting customer sites within a defined geographic area. The system includes a table for storing a number of routes, each of which specifies a sequence of regions to be visited by a particular operative, and jobs to be performed by the operative in each of the regions. An appointment server is provided for offering appointments at specified times, using the table to check for availability of operatives in specified regions at specified times, and for inserting new jobs in the routes to reflect booked appointments. A scheduler periodically updates the routes e.g by means of a simulated annealing process, to generate a new set of routes.

**21. Brief about Invention**

This invention relates to an appointment booking and scheduling system. The invention is particularly, although not exclusively, concerned with a system for booking appointments with service engineers visiting customer sites within a defined geographic area.

The object of the invention is to provide an improved appointment booking and scheduling system.

**22. Key learning Points**

Reactive scheduler, Appointment booking scheduler Gantt manager

**23. Summary of Invention**

According to the invention there is provided an appointment booking and scheduling system comprising:

(a) a table for storing a plurality of routes, each of which specifies a sequence of regions to be visited by a particular operative, and jobs to be performed by the operative in each of the regions;

(b) an appointment server for offering appointments at specified times, using the table to check for availability of operatives in specified regions at specified times, and for inserting new jobs in the routes to reflect booked appointments; and

(c) a scheduler for periodically updating the routes in accordance with predetermined scheduling criteria, to generate a new set of routes.

**24. Number of Claims** : 4

**25. Patent Status** : Expired Patent

**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)**

As being appointment scheduling scheme it should schedule without any crashes