

1) Family number: 50825018 (JP2012039964A)

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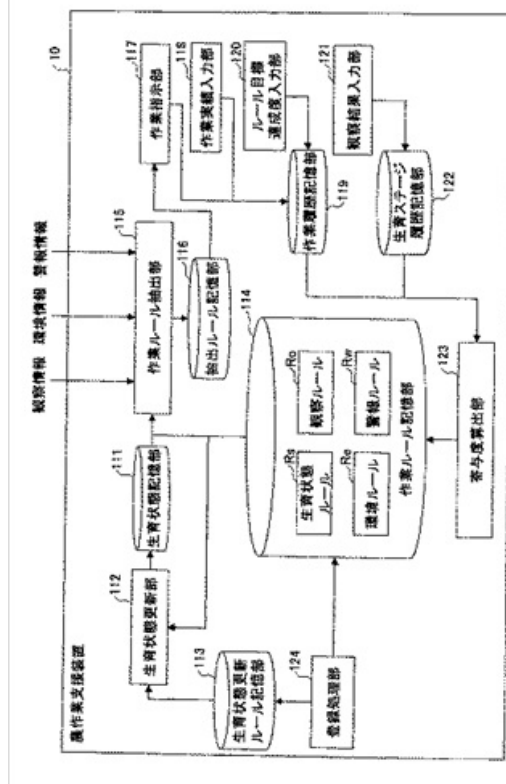
Title: APPARATUS, METHOD AND PROGRAM FOR SUPPORTING AGRICULTURAL OPERATION

Abstract: PROBLEM TO BE SOLVED: To support the execution of an appropriate agricultural operation according to situations. SOLUTION: An apparatus for supporting an agricultural operation includes: an operation rule information storage unit for storing operation rule information including information indicating the condition of crops or information indicating the condition of an environment, requirements about the condition of the crops or the condition of the environment, operation information indicating an operation to be executed when the requirements are met, and the degrees of contribution to the growth of the crops in the operation; an operation rule information extraction unit for extracting from the operation rule information storage unit the operation rule information including the requirements matching the inputted information indicating the condition of the crops or the information indicating the condition of the environment; and an operation instruction unit which outputs the operation information included in the operation rule information extracted. When a plurality of pieces of operation rule information are extracted, the operation instruction unit selects the piece of operation rule information to be outputted from among the plurality of pieces of operation rule information according to the degree of contribution.

Classifications:**International (IPC 8-9):** A01G7/00 G06Q50/02 (Advanced/Invention)**JP F-Term:** 2B022 5B049 5L049 5L049/CC01**JP F-Index:** A01G7/00/603 G06F17/60/102 G06Q50/02

PatBase - JP2012039964_A2

本発明の実施の形態における農作業支援装置の機能構成例を示す図



Family:

Publication number	Publication date	Application number	Application date
JP2012039964 A2	20120301	JP20100185378	20100820
JP5671877 B2	20150218	JP20100185378	20100820

Priority:

JP20100185378 20100820

Probable Assignee: FUJITSU LTD**Assignee(s):** (std): FUJITSU LTD**Assignee(s):** FUJITSU LIMITED**Inventor(s):** (std): HORI MITSUYOSHI ; TANI HIROYUKI ; NAKAMICHI KOJI**Agent(s):** ITOH TADAHICO

2) Family number: 52128066 (JP5300993B)

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Title: FERTILIZER FOR HYDROPONICS OF LOW POTASSIUM VEGETABLE AND HYDROPONICS METHOD OF LOW POTASSIUM VEGETABLE USING THE FERTILIZER

Abstract: PROBLEM TO BE SOLVED: To provide a fertilizer for hydroponics for growing a low potassium vegetable in which the content of potassium is reduced without raising the content of sodium, and that can be eaten even by a renal patient being relieved, and to provide a hydroponics method of the low potassium vegetable. SOLUTION: A period L from sowing to harvesting is set beforehand according to a vegetable to be grown, a given period that goes back from the harvesting is assumed to be a final growing period L2, a period ahead of the final growing period is assumed to be an initial growing period L1. In the final growing period, the fertilizer for the hydroponics including neither potassium nor sodium substantially, and including calcium, magnesium, phosphorus, nitrate nitrogen, and ammonia nitrogen as principal ingredients, wherein the pH value of the aqueous solution of them becomes 5-9 is used, and in the initial growing period L1, the fertilizer including potassium, calcium, magnesium, phosphorus, and nitrogen as principal ingredients is used.

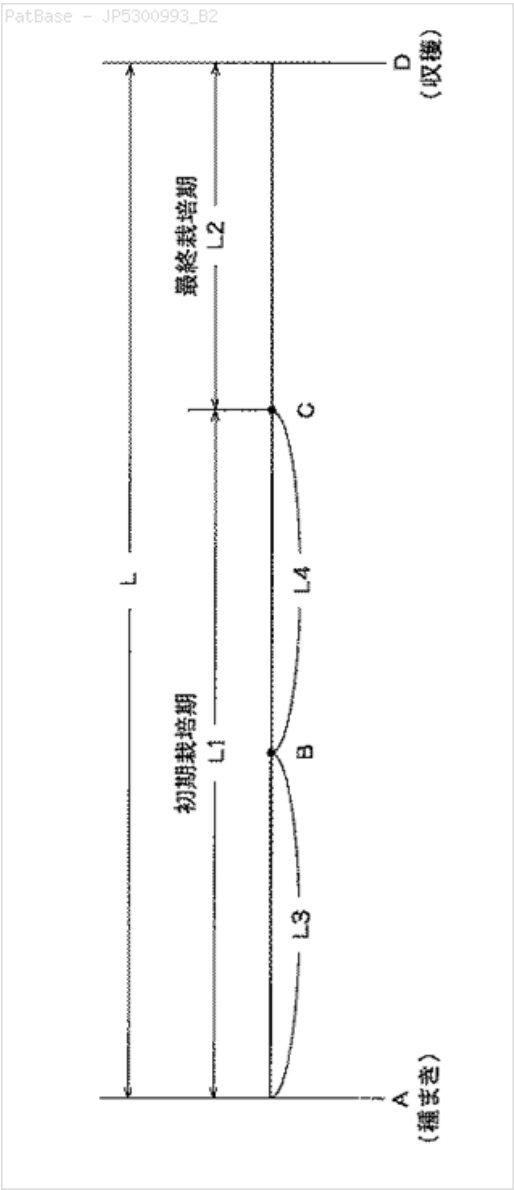
Classifications:

International (IPC 8-9): A01G1/00 A01G31/00 (Advanced/Invention)

CPC: Y02P60/216

JP F-Term: 2B022 2B022/AA01 2B022/AB11 2B022/DA19 2B314 2B314/MA12 2B314/MA14 2B314/MA17 2B314/MA21 2B314/MA51

JP F-Index: A01G1/00/301/Z A01G22/15 A01G24/10 A01G31/00/601/A



Family:

Publication number	Publication date	Application number	Application date
JP2012183062 A2	20120927	JP20120016589	20120130
JP5300993 B2	20130925	JP20120016589	20120130

Priority:

JP20110031024 20110216 JP20120016589 20120130

Probable Assignee: UNIV AKITA PREFECTURAL

Assignee(s): (std): AKITA PREFECTURAL UNIV ; TOK BEARING CO LTD ; UNIV AKITA PREFECTURAL

Inventor(s): (std): IKEDA TAKAKO ; OGAWA ATSUSHI ; TOYOFUKU KYOKO ; UZUKA KAZUO

3) Family number: 31321183 (JP2004282045A)

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Title: MANUFACTURING SYSTEM, MANUFACTURING METHOD, AND EQUIPMENT ADJUSTMENT METHOD

Abstract: PROBLEM TO BE SOLVED: To enhance the manufacturing efficiency by reducing the processing time of each cell in the

so-called cell manufacturing system. SOLUTION: This manufacturing system includes a soldering robot 1 to solder electronic components to a printed circuit board, a circuit check unit to inspect the electrical characteristics of the printed circuit board, a ROM writer 3 to write the predetermined data on the flash ROM on the printed circuit board, and a function test unit 4 to perform a final function test. These units used for respective processes are positioned close to each other so that a single operator A can operate them, and make up a cell (a family). The operator performs soldering with the soldering robot, circuit check, and data writing while the function test unit performs its process. Thus, this cell takes only the time required for the function test to process one printed circuit board.

Classifications:

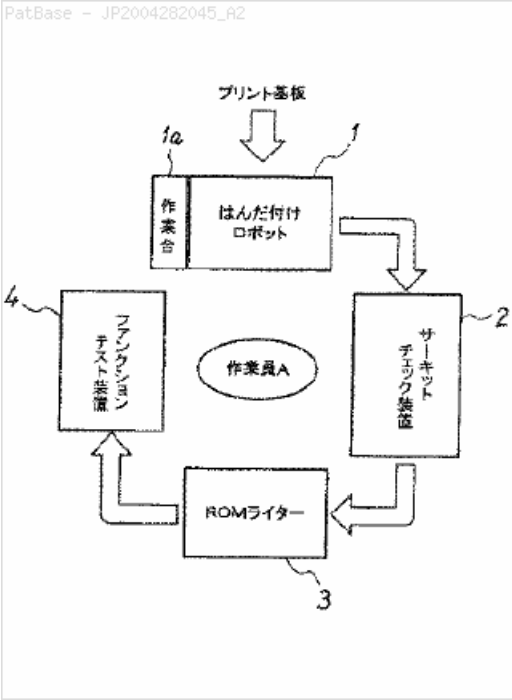
International (IPC 8-9): H05K3/00 (Advanced/Invention);
H05K3/00 (Core/Invention)

International (IPC 1-7): H05K3/00

CPC: Y02P90/02

JP F-Term: 3C030 3C030/DA14 3C100 3C100/AA42 3C100/BB05
3C100/BB13 3C100/EE07 5E342

JP F-Index: B23P21/00/307/Z G05B19/418/Z H05K3/00/Z



Family:

Publication number	Publication date	Application number	Application date
JP2004282045 A2	20041007	JP20040044043	20040220

Priority:

JP20030048011 20030225 JP20040044043 20040220

Probable Assignee: RICOH CO LTD

Assignee(s): (std): RICOH CO LTD ; RICOH MICROELECTRONICS CO LTD

Inventor(s): (std): KAWAMURA TAKANORI ; KISHIMOTO HIROKI ; KOBAYASHI YOSHINORI

4) Family number: 13362272 (JP11299351A)

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Title: SUPPORTING APPARATUS FOR DETERMINING OPERATION, DETERMINATION AND RECORDING MEDIUM

Abstract: PROBLEM TO BE SOLVED: To support the determination of a period or contents of proper farm working for each field in persons engaged in the farm working. SOLUTION: A meteorological model 43 for a field is capable of predicting meteorological phenomena for each field and a crop growth model 41 is capable of predicting the growth of crops for each field. A soil map 47 is capable of detecting conditions of soil for each field and an operation history control part 44 is capable of storing the history of farm working for each field. A farm working supporting part 48 is capable of calculating a proposal for the farm working from information about the crop growth from the crop growth model 41, information indicating the conditions of soil from the soil map 47 and the farm working stored in the operation history control part 44.

Classifications:

International (IPC 8-9): A01G7/00 G05B19/418 G06Q50/00 G06Q50/02
G06Q50/04 (Advanced/Invention);

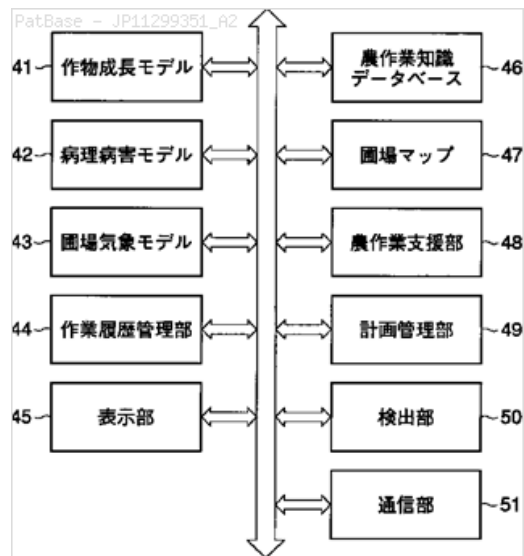
A01G7/00 G05B19/418 G06Q50/00 (Core/Invention)

International (IPC 1-7): A01G7/00 G06F17/60

CPC: Y02P90/30

JP F-Term: 2B022 2B022/AA00 2B022/DA20 3C100 5B049 5B049/AA00
5B049/BB02 5B049/CC03 5B049/CC21 5B049/CC32 5B049/DD00
5B049/DD01 5B049/DD05 5B049/EE03 5B049/EE05 5B049/EE33
5B049/FF03 5B049/FF07 5B049/GG03 5B049/GG04 5H269 5L049
5L049/CC01 5L049/CC04

JP F-Index: A01G7/00/603 G05B19/418/Z G06F15/21/R G06F17/60/102
G06F17/60/108 G06Q50/02 G06Q50/04 G06Q50/04/100



Family:

Publication number	Publication date	Application number	Application date
JP11299351 A2	19991102	JP19980108862	19980420
JP2005176850 A2	20050707	JP20050003408	20050111
JP4058544 B2	20080312	JP19980108862	19980420
JP4202328 B2	20081224	JP20050003408	20050111

Priority:

JP19980108862 19980420 JP20050003408 20050111

Probable Assignee: OMRON CORP

Assignee(s): (std): NOKODAI TLO KK ; OMRON TATEISI ELECTRONICS CO

Assignee(s): OMRON CORP

Inventor(s): (std): SHIBUSAWA SAKAE

Agent(s): INAMOTO YOSHIO

5) Family number: 31937436 (US2005216111A)

PatBase

Title: PLANNING OPERATION MANAGEMENT SUPPORT SYSTEM, AND PLANNING OPERATION MANAGEMENT SUPPORT PROGRAM

Abstract: A project template information management database 1 of a planning operation management support system includes: database groups from 20 to 23 saving setting information of planning operations performed in the past, names of process flows in the respective layers (task name), lead times (lead time) required for the respective process flows (task), and dependency relations between the process flows (task), as templates by the respective customers; a result database 15 storing trading results with customers in the past; and a calendar database 16 storing calendar information setting actual working days when workers in charge of the respective process flows carry on a work, and holidays. A client terminal 4 includes: an input device 35 inputting new project names, customer names, and delivery dates; and a CPU 41 calling a corresponding customer's template from the project template information management database 1 by inputting the customer name, the name of the new project, and the delivery date, creating a new project information, and displaying the Gantt chart on the screen.

Classifications:

International (IPC 8-9): G05B19/418 G06F17/60 G06F19/00 G06Q10/00
G06Q10/06 G06Q50/00 (Advanced/Invention)

International (IPC 1-7): G05B19/418 G06F17/60 G06F19/00

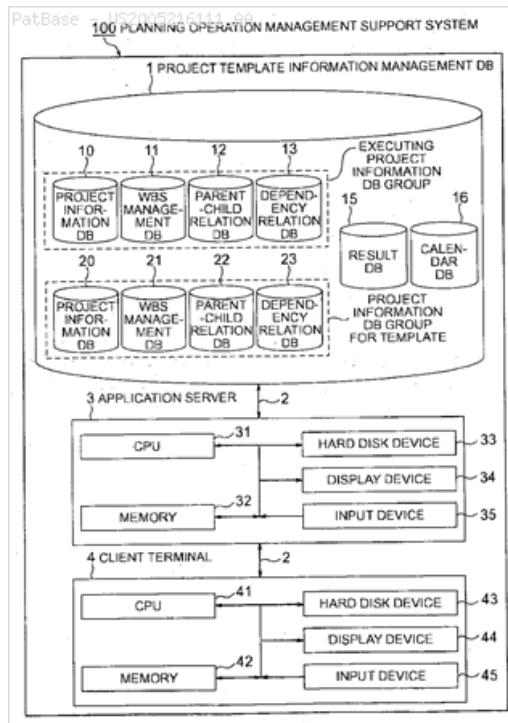
CPC: G06Q10/06

European: G06Q10/06

US: 700/100 700/97 700/97S 700/99 700/99P

JP F-Term: 3C100 3C100/AA18 3C100/BB01 3C100/BB11 3C100/BB39
5B049 5L049 5L049/AA09

JP F-Index: G05B19/418/Z G06F17/60/164 G06Q10/06/120
G06Q10/06/302



Family:

Publication number	Publication date	Application number	Application date
CN1674025 A	20050928	CN200510059282	20050325
CN1674025 B	20111012	CN200510059282	20050325
GB200505639 A0	20050427	GB20050005639	20050322
GB2412458 A1	20050928	GB20050005639	20050322
JP2005275989 A2	20051006	JP20040090630	20040325
JP4177280 B2	20081105	JP20040090630	20040325
US2005216111 AA	20050929	US20050086226	20050323
US7039480 BB	20060502	US20050086226	20050323

Priority:

JP20040090630 20040325

Probable Assignee: TOSHIBA DIGITAL SOLUTIONS CORP

Assignee(s): (std): SUMITOMO WIRING SYSTEMS CO LTD ; TOSHIBA SOLUTIONS CORP ; TOSHIBA SOLUTIONS LTD ; OOSHIMA NOBUHIRO ; NISHIGUCHI KATSUTOSHI ; MATSUDAIRA HIROKATSU ; KOBAYASHI HITOSHI ; SUMITOMO WIRING SYSTEMS

Assignee(s): SUMITOMO WIRING SYST LTD ; SUMITOMO WIRING SYSTEMS CO ; SUMITOMO WIRING SYSTEMS LTD ; TOSHIBA DIGITAL SOLUTIONS CORP ; TOSHIBA SOLUTIONS 1 1 SHIBAURA 1 CHOME CORP

Inventor(s): (std): HIROKATSU MATSUDAIRA ; HITOSHI KOBAYASHI ; KATSUTOSHI NISHIGUCHI ; KOBAYASHI HITOSHI ; MATSUDAIRA HIROKATSU ; NISHIGUCHI KATSUTOSHI ; NOBUHIRO OOSHIMA ; OOSHIMA NOBUHIRO ; OSHIMA NOBUMUNE

Agent(s): SUYAMA SAICHI; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER LLP; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER, LLP

6) Family number: 71677525 (US2018315135A)

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Title: SYSTEMS AND METHODS FOR ESTIMATING DEGREE OF COMPLIANCE WITH RECOMMENDED CROP PROTOCOL

Abstract: Traceability of agricultural activities is very critical to market compliance. Mere automation of traditionally monitored agricultural activities alone may not address the challenge of providing a simple yet flexible and predictable method of effective and real time monitoring of agricultural activities around the farm that may be used to compute crop protocol for any crop under consideration. The systems and methods of the present disclosure facilitate automatic identification of crop protocol irrespective of the type of the crop and agricultural activities associated thereof. Real time monitoring of the agricultural activities also enable farm personnel to conclude on effects of dynamic changes in crop protocol thereby allowing continuous building up of the repository of agro-climatic zone based information associated with the farm. Regulating crop protocol results in a predictable increase in efficiency and sustainability of crop yield that helps farm personnel to optimize productivity.

Classifications:

International (IPC 8-9): A01B79/00 A01G7/00 G06K9/62 G06K9/6268 G06Q10/06 G06Q10/06316 G06Q30/00 G06Q30/018 G06Q50/02 (Advanced/Invention)

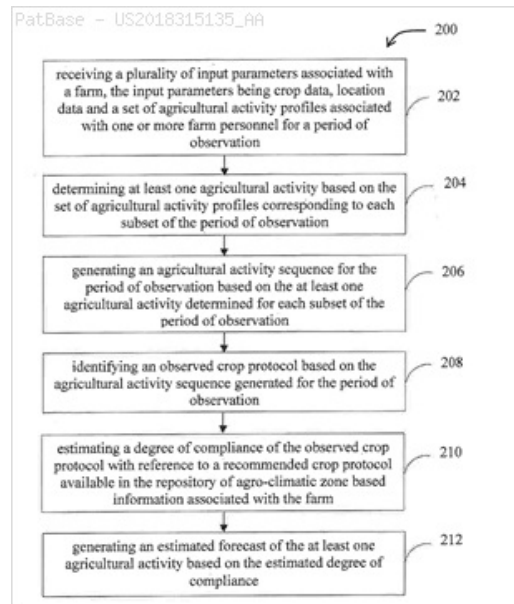
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CPC: G06K9/62 G06K9/6268 G06Q10/06 G06Q10/06316 G06Q30/018 G06Q50/02 G06Q10/06393

US: 1/1 705/317

JP F-Term: 2B022 5L049 5L049/CC01

JP F-Index: A01G7/00/603 G06Q50/02



Family:

Publication number	Publication date	Application number	Application date
BR102018005641 A2	20190226	BR20181005641	20180321
CN108805384 A	20181113	CN201810235670	20180321
CO20180004082 A1	20181022	CO20180004082	20180417
ID201811637 A	20181102	ID2018PID02063	20180321
IN201721014956 A	20181102	IN201721014956	20170427
JP2018185800 A2	20181122	JP20180053912	20180322
JP6618561 B2	20191211	JP20180053912	20180322
US2018315135 AA	20181101	US20180926654	20180320

Priority:

IN201721014956 20170427 JP20180053912 20180322

Probable Assignee: TATA CONSULTANCY SERVICES LTD

Assignee(s): (std): TATA CONSULTANCY SERVICES LTD

Inventor(s): (std): SANAT SARANGI ; BHUSHAN GURMUKHDAS JAGYASI ; SOMYA SHARMA ; JAGYASI BHUSHAN GURMUKHDAS ; SHARMA SOMYA ; SARANGI SANAT

Agent(s): IRENNE AMELIA ANWAR

7) Family number: 44071724 (WO09145175A1)

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Title: PLANNED CULTIVATION SUPPORTING APPARATUS, PLANNED CULTIVATION SUPPORTING METHOD, AND COMPUTER PROGRAM

Abstract: A planned cultivation supporting apparatus, a planned cultivation supporting method, and a computer program all enabling quick selection of a farm producer capable of cultivating or being cultivating crops the cultivation of which is to be consigned in consideration of various cultivation standards and enabling efficient support of planned cultivation of the crops. The planned cultivation supporting apparatus includes a cultivation standard information database where cultivation standard information representing basic cultivation standards which are minimum required basic ones required to cultivate crops and individual cultivation standards stricter than the basic cultivation standards is recorded, a farm producer information database where farm producer information relating to farm producers capable of cultivating the crops is recorded, a cultivation instruction information input means for inputting cultivation instruction information representing a cultivation instruction of a specific crop, a cultivation standard determining means for determining new cultivation standards by modifying the basic cultivation standards with reference to the individual cultivation standards corresponding to the cultivation instruction information, a farm producer selecting means for selecting one or more farm producers capable of cultivating the crop in conformity with the determined new cultivation standards according to the farm producer information, and a cultivation plan information output means for outputting cultivation plan information representing a cultivation plan to cultivate the crop in conformity with the new cultivation standards.

Classifications:

International (IPC 8-9): A01G1/00 A01G7/00 G06F17/40 G06Q30/06

G06Q50/00 G06Q50/02 (Advanced/Invention);

A01G1/00 G06F17/40 (Core/Non-invention)

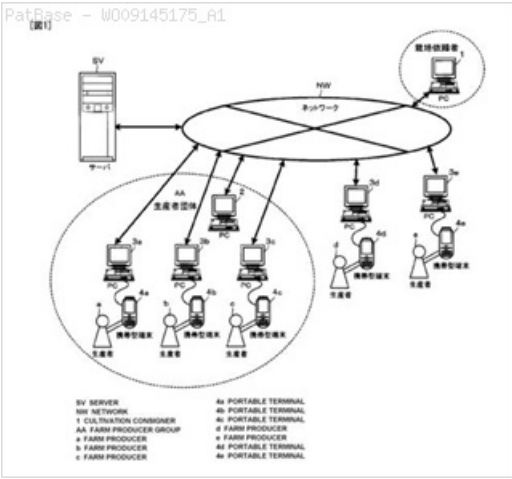
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JP F-Term: 2B022 5B049 5L049 5L049/BB24 5L049/CC01

JP F-Index: A01G7/00/603 G06F17/60/102 G06F17/60/302/A

G06Q30/06/110/A G06Q30/06/300 G06Q50/02



Family:

Publication number	Publication date	Application number	Application date
JP2009278958 A2	20091203	JP20080137096	20080526
JP5160962 B2	20130313	JP20080137096	20080526
TW201017442 A	20100501	TW20090117154	20090522
TWI463342 B	20141201	TW20090117154	20090522
WO09145175 A1	20091203	WO2009JP59580	20090526

Priority:

JP20080137096 20080526

Probable Assignee: JFE HOLDINGS INC

Assignee(s): (std): AGRICOMPASS INC ; HISHINUMA EISUKE ; IWASHITA MASATO ; MASUDA MAKOTO ; NAKAHARA KATSUYOSHI ; KUMADA JUNICHI ; TANAKA TOSHIYUKI ; SCUBE INC J ; JFE HOLDINGS INC ; JFE ENG CORP

Assignee(s): JFE ENGINEERING CORP ; JFE ENGINEERING CORPORATIONJP ; J SCUBE INC

Inventor(s): (std): MASUDA MAKOTO ; NAKAHARA KATSUYOSHI ; HISHINUMA EISUKE ; KUMADA JUNICHI ; TANAKA TOSHIYUKI ; IWASHITA MASATO

Agent(s): ISHIKAWA YASUO ET AL

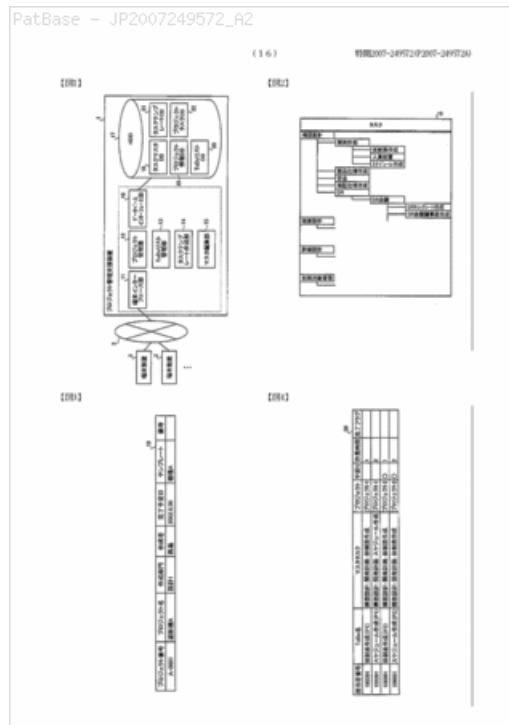
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8) Family number: 40779927 (JP2007249572A) © PatBase

Title: PROJECT MANAGEMENT SUPPORT DEVICE, PROJECT MANAGEMENT SUPPORT METHOD, AND PROJECT MANAGEMENT SUPPORT PROGRAM

Abstract: PROBLEM TO BE SOLVED: To provide a project management support device for facilitating a template forming work. SOLUTION: This device comprises a task template DB 21 storing templates of work items of a project; a ToDo list DB 20 storing project identification information for identifying the project in association with a work item completed; and a task template formation part 14 acquiring a work item associated with designated project identification information from the ToDo list DB 20, and forming and registering a template containing the acquired work item in the task template DB 21.

Classifications:
International (IPC 8-9): G06Q10/00 G06Q10/06
G06Q50/00 (Advanced/Invention)
JP F-Term: 5B049 5L049 5L049/AA09
JP F-Index: G06F17/60/164 G06Q10/06/120 G06Q10/06/302

**Family:**

Publication number	Publication date	Application number	Application date
JP2007249572 A2	20070927	JP20060071703	20060315
JP4908024 B2	20120404	JP20060071703	20060315

Priority:

JP20060071703 20060315

Probable Assignee:

MITSUBISHI ELECTRIC CORP

Assignee(s): (std):

MITSUBISHI ELECTRIC CORP

Assignee(s):

MITSUBISHI DENKI KABUSHIKI KAISHA

Inventor(s): (std):

NISHIJIMA AKIO

9) Family number: 32350973 (JP2005250678A)

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Title: DIARY INPUT SUPPORT DEVICE AND METHOD

Abstract: PROBLEM TO BE SOLVED: To provide a diary input support device for facilitating input operation and reducing input time for increased efficiency in the creation of a work diary. SOLUTION: The diary input support device includes a database 11 for storing the contents of operations registered in previous diaries, along with the dates of previous operations performed and information on the present condition of implementation; a diary creation process part 10 that, at the input of the date of registration into the current diary, searches the database 11 for candidates of the contents of operations performed around the same previous dates as the inputted date of registration and outputs a list of operations yet to be performed from the candidates and that, based on a command inputted from the outside, selects the contents of operations to be registered in the current diary from the list of operations yet to be performed; and a database 12 that stores the inputted date and the selected contents of operations as the current diary.

Classifications:**International (IPC 8-9):** G06Q50/00 G06Q50/02 (Advanced/Invention)**International (IPC 1-7):** G06F17/60**JP F-Term:** 5B049 5L049 5L049/CC01**JP F-Index:** G06F17/60/102 G06Q50/02

Publication number	Publication date	Application number	Application date
JP2005250678 A2	20050915	JP20040057871	20040302

JP20040057871 20040302

Assignee(s): (std): MITSUBISHI ELECTRIC ENG

Inventor(s): (std): MIKAWA AIKO