Managing Workflow:
R&D to Experts to Management
The Challenges and Rewards

David T Dickens
Director Patent Business
An Example of IP Workflow

R&D

Information Professional

Management
The Ideal IP Workflow
The Challenges

• Sharing knowledge
• Ever increasing amount of patent information
• Perception of ease of patent searching
• Integrating multiple sources of IP information
• Data content license
• Simplifying access to patent information
• Fast and secure access to patent information
End-User Patent Searching

• Types of patent searching:
  • Not: Novelty, Validity or Infringement
  • May not know how to effectively search…
    However – they know it when they see it

End-User Patent Searching Options:
• Find on their own
• Assist in the search
• Search a pre-selected set
Patent Overload

Increasing…
• Amount of worldwide patenting
• Full-text
• Facsimile documents
• Non-English patents
• Sources
  • Vendors, PTOs
• Analysis
Powerful Tools

- Reporting
  - Smart Charts

- Value-add Abstracts
  - DWPI, PatReader, FamPat

- Machine Translation
  - Systran, WorldLingo, Paterra
  - EPO, IPDL, KIPRIS

- Facsimile Delivery
  - PTOs
  - Many vendors...

- Analysis and Visualization
  - Thomson Data Analyzer, STN AnaVist, Matheo, OmniViz, VantagePoint, Smart Charts
IP Workflow Requirements

- Real-time data
- In-house data
  - Filed but not published
- Search capability
- User defined indexing
- Visualization and Analytical tools
- Reporting
- Project specific
- Collaborative capability
Challenges for Content Providers

- Standardized and consistent data formats
- Delivery of large data sets
- Flexible pricing
- Flexible content licensing
Workflow Solutions

**In-House (or DYI)**
- Proprietary or Off-the-shelf software
- Lotus Notes – 3M
- Wistract – Bayer

**Existing IP Specific Solutions**
- Solutions already on the market
- Aureka - Thomson Scientific
- PatentExaminer – Questel
- Wistract – Bayer Business Services
In-House Solutions

**Advantages**
- Can design for existing and future needs
- Customizable
- Security

**Disadvantages**
- Cost
  - Maintenance, Development, Support of data center
- Managing content / license
Existing Solutions

Advantages
• Pre-designed
• Vendor experience
• Cost
  – Vendor supports system
• Data content / licensing

Disadvantages
• Customization
• Data content
• Security
Case Studies

Case 1: Bayer
• Bayer Business Service (BBS)
• Wistract

Case 2: Customer Q
• Questel’s QPAT and Qweb
• Questel’s PatentExaminer
Case 1: Bayer

Requirements:
- IP system for information professionals, researchers and patent attorneys
- Support a large number of users
- Handle a wide range of content
  - Patents, Technical and Scientific literature
  - Standardized display, images
- User-defined indexing and annotating
- Merging / deduplicating data
- Exporting capability
- Analytical features
- Security
Case 1: Bayer

- **Bayer Business Service (BBS)**
  - Bayer Group’s international competence center for IT-based services
- Developed Wistract to meet these needs
- Wistract is a local Windows client software (2000/XP)
- Used by hundreds of Bayer staff around the world
Wistract Use Cases

Option 1

- Treatment of search results
- Manage, analyze & comment

Option 2

- Delivery of treated search results in standard format (PDF, RTF, XLS etc.)
- End-user search

End-User

Information Specialist

Data Source

Questel
Intellectual Property Group
Wistract: Standardized Presentation

Terminal device

Effects of dexamethasone with or without Aloe vera extract on radiation-induced oral mucositis: preclinical studies.

Durr W, Schlichting S, Bray Ma, Flockhart Jr, Hopewell Jw.

Radium Laboratory, Department Of Radiotherapy And Radiation Oncology, Medical Faculty Carl Gustav Carus, University Of Technology, Dresden, Germany. Durr@rct.urz.tu-Dresden.de


Purpose: To define the effect of dexamethasone with or without Aloe vera extract on radiation-induced oral mucositis. MATERIALS AND METHODS: Mouse tongue mucosal damage was analyzed using the clinically relevant endpoints. Graded single or fractionated dose irradiation (10 x 3 Gy/2 weeks, graded dose doses on day 14) were combined with topical administration of dexamethasone or a base, with or without Aloe vera extract. The formulations were tested for 14 days, 30 days, or 40 days after the first.
Wistract: Browse & View

- Search term highlighting of original search
- Select documents in table or document view
- Delete documents
- Attach originals or supporting information

Efficacy and tolerability of a one-week triple therapy consisting of pantoprazole, clarithromycin and amoxicillin for cure of Helicobacter pylori infection in patients with duodenal ulcer.

Lahns J, Tilborg B, Weismuller J, Luhrs A, Stolte M
Department Of Internal Medicine And Gastroenterology, Elizabeth Hospital Essen, Germany
Language Eng
Publication Year 1997

BACKGROUND: Previous studies have shown that one-week triple therapy consisting of omeprazole, clarithromycin and amoxicillin may cure Helicobacter pylori infection in the vast majority of patients. The present study was designed to test the hypothesis that a triple therapy with pantoprazole, clarithromycin and amoxicillin cures the infection in greater than or = 80% of duodenal ulcer patients infected with H. pylori. METHODS: In an open two-centre study, 60 duodenal ulcer patients were treated with pantoprazole-40 mg b.d., clarithromycin 500 mg b.d. and amoxicillin 1 g b.d. for 1 week. During the second week patients received pantoprazole 40 mg once in the morning. We assessed H. pylori infection before treatment and 4 weeks after...
Wistract: Manage and Comment

- Free text comments (incl. links)
- Controlled vocabulary
- Analysis of all comments
- Bulk commenting (selected documents or analysis results)
Case 2: Customer Q

Questel customer using:
- Qweb: Information professionals
- QPAT: R&D
- PatentExaminer: For all groups
Case 2: Customer Q

Requirements:
• IP system for specialists to assist R&D and management
• Staff of 20 Experts support 200 End-users
  • Authorization Levels:
    – Commenters / Readers
• Handle in-house and Questel data
  • Including Qweb and QPAT users
• Searching capability
• User-defined indexing and annotating
• Alerting and Reporting capability
• Security
Add selected records to Workfile
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<td>Taillight mounted vehicle security system employing facial recognition using a reflected image</td>
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<td>Biometric monitoring circuit for motor vehicle occupants has video camera connected to security circuit to monitor drivers biometric facial parameters and sounds alarm if driver is not identified correctly</td>
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<td>APPLICATION OF HUMAN FACIAL FEATURES RECOGNITION TO AUTOMOBILE SECURITY AND CONVENIENCE</td>
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<td>Entry control system and method using biometrics</td>
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<td>The method involves comparing a user identification signal (2) in a processor (1) with a stored reference signal. In accordance with the results of the comparison, locking functions to allow or prevent operation of the vehicle are controlled. An arrangement is provided for generating the identification signal, which records a body action (13) of the current user e.g. a body movement or pose or a facial movement, and converts this into an identification signal.</td>
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<td>2</td>
<td>US20020097145</td>
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<td>A method and apparatus for preventing theft of, and/or facilitating authorized access to, automotive vehicles generally comprises an image acquisition device adapted to generate signals representative of a human facial image wherein a processor associated with the image acquisition device is adapted to operatively receive the signals and generate an output relative to recognition or non-recognition of the human facial image. A response interface is associated with the processor and adapted to effect a vehicle security measure responsive to the recognition or non-recognition of the human facial image. An enrollment interface is adapted for enrolling authorized human users. The processor is adapted to compare signals generated by the image acquisition device with stored images of authorized users, generally by a face recognition engine which may be implemented with either a neural network or principal component analysis or their equivalent. Processing by the face recognition engine is facilitated by providing a morphological pre-processor which may screen images for quality or, in at least one embodiment, perform some verification functions. A postprocessor may be provided to make the determination of recognition or non-recognition based upon a predetermined threshold value of recognition. A triggering event interface is provided for communicating to the system the existence of those conditions necessitating verification of the user. Such events may include the opening of a car door, attempts to start the vehicle or attempts to access the vehicle. A response interface is also provided for effecting appropriate vehicle security measures. The response interface is generally one or more interconnections to the vehicle's microprocessor, door lock relay or alarm system. This interface will function to disable operation of the vehicle and/or sound the alarm in the case of attempted unauthorized use or access and will also serve to facilitate access to the vehicle in the case of authorized use.</td>
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<td>US6881712</td>
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<td>Radio-less self contained apparatus for rapidly thwarting theft of large trucks by terrorists or hijackers</td>
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<td>A driver briefly places his hand upon a biometric hand reader once during each successive four minute recurrent time interval established by a microprocessor that continues to produce a maintain-truck-operative state. The biometric hand reader is adapted to process biometric signals from the driver's hand that are characteristic of the individual as stored in a reference database. The biometric hand reader is further adapted to compare the processed biometric signals with those characteristic of the individual stored in the reference database. A comparison of the processed biometric signals with those characteristic of the individual stored in the reference database is made and if the comparison indicates that the processed biometric signals are not characteristic of the individual, the vehicle is adapted to enter a locked state.</td>
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**Apparatus for authenticating vehicle driver**

**Family number**: 2006230019281


**Title**: Apparatus for authenticating vehicle driver

**Patent Assignee**: OMRON TATEISI ELECTRONICS CO

**Inventor(s)**: IDO YUSAKU; OTA SHUNJI

**Priority Details**: 2005JP-0057255 20050310

**Int'l. classification**: B60R-025/04

**ECLA Classification (EPO)**: B60R-025/04

**US Class Code**: ORIGINAL (0): 382118000

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**FamPat family (2006230019281)**

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A movable-vehicle security system includes a facial-recognition system including a scanner such as a television or infrared camera directed at the face of a person in the driver's seat which system produces output control signals that are applied to enable or disable operation of the vehicle, with or without a key or other supplemental security system. In a particular embodiment, the system includes a camera mounted on the "third taillight" assembly (which is preferably mounted below the roof and inside the rear window), directed at the rear-view mirror and coupled to a facial-recognition computer, which in turn is coupled (with appropriate security precautions) to an enabling element for the vehicle, such as a starter motor. In a further embodiment, the system can be coupled to various elements of the motive system to create an auto-starting car.

Insertion date: 20070406
First read date: 20070421
Main claim
1-63. (cancel)

Claims
34. A security system for a movable, engine-powered vehicle provided with an enabling system, the security system comprising: (a) an electronic camera positioned to scan at least a portion of the face of a person located at the driver's station of the vehicle and structured to produce image signals; (b) an electronic facial-recognition system responsive to the image signals and controllably coupled to the enabling system; and (c) an electronic storage device coupled to the facial-recognition system to store a set of image signals, such that the facial-recognition system provides an authorization control signal and activates the enabling system only if signals representing a match characteristic of the recognized face of the person differ from the images stored in the storage device.
User notes

04201:97  23/02/2007  Perfect!
Having the continuation patent included helps quite a bit

04201:97  23/02/2007  Software
Like to see if any additional information on the imaging software is available

Add new note:
Summary:

Text:

OK  Cancel  Help
Conclusion

• Improving Workflow
  • Increase productivity
  • Increase communication
  • Reduce duplicate efforts
  • Reduce time to market
  • Increase profitability

• Number of Solutions
  • SME or Fortune 500 Company

• The Information Professional is…
  • Vital
  • Center of the Universe