ICAP PATENT BROKERAGE

# Devices System Integration

*Xerox Corporation & Palo Alto Research Center Incorporated*

## Initial Bidding Guidance: Mid 6 Figures

With priority dates from 2002, this portfolio takes advantage of the ever-increasing connectivity of devices so as to reduce operating expenses by automating non-uniform processes. This portfolio includes:

1. Provisioning a services computer hardware platform for electroreprographic marking machines (e.g., printers, copiers, fax machines, scanners and multifunction devices) to automatically and remotely regulate service subscriptions, replenish supplies, and automate meter reads. *[7,644,145]*
2. A Device Model Agent (DMA) operable in a thin, efficient applications/services execution environment to provide an embedded services platform for system management applications and services, thus offering benefits for system management application development, deployment, and maintenance. Such benefits include: (i) active participation in applications and services offerings (e.g., post-sale, system management, and other services), (ii) dynamic updates of services and support components, (iii) device independent applications (the DMA enhances the industry-standard DMTF/CIM implementation by adding a service manager component), and (iv) dynamic services provisioning. *[7,647,392 & 7,734,749]*
3. Apparatus for a low-cost embedded platform for device-side, distributed services that enables a standards-based solution useful for implementing modular remote service offerings. Applicable to a class of services for support of devices (printers, scanners, repositories), and to other services and solutions and their lifecycles, thus making the devices easier to own, use, support, purchase, and upgrade. Some examples of the types of services offered include: automated meter reads, automated supplies ordering, productivity reporting, software downloading, assisted user self-help, and remote diagnostics and prognostics. *[8,154,741]*
4. A communication system in a network consisting of configured devices that communicate through a temporal sequence of frames that include multiple sub-channels, the total number of which in a given frame is dynamically determined based on a transmission schedule calculated using the transmission lists exchanged between the devices. *[7,756,102]*
5. Method and apparatus for a dynamic channel-access protocol in ad-hoc networks. *[7,937,060]*

**Forward Citing Companies:** Blackbird Holdings, Canon, Google, Honeywell, Intellectual Ventures, IBM, Raytheon, Red Hat Inc, Ricoh, Visa, Yahoo!

**Priority Date:** 10-16-2002

**Representative Claim:** US 7,756,102 – Claim #1

A communication system, comprising: devices configured to communicate with each other through a temporal sequence of frames, wherein each frame includes sub-channels; wherein a total number of sub-channels in a given frame is dynamically determined based on a transmission schedule; wherein the transmission schedule is calculated by the devices based on transmission lists that are exchanged between the devices; wherein a first transmission list for a first device includes a first group of sub-channels reserved by the first device and a second group of sub-channels reserved by a set of devices communicating with the first device; and wherein the total number of sub-channels is a least common multiple of the number of sub-channels in the transmission lists exchanged between the devices, and wherein the least common multiple is a product of ranks of the transmission lists divided by a largest common divisor of the ranks.

**Contact:**

For more information on the assets available for sale in this portfolio, contact Paul Greco.

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### TECHNOLOGY

IT INFRASTRUCTURE WITH DEVICES, SYSTEMS AND NETWORK MANAGEMENT

### IMPORTANCE

A VALUABLE PORTFOLIO FOR HARDWARE, SOFTWARE, AND SERVICES PROVIDERS OFFERING IT INFRASTRUCTURE, DEVICES, SYSTEMS, AND NETWORK MANAGEMENT SOLUTIONS

### NUMBER OF ASSETS

15

### PATENTS (13)

US 7,644,145
US 7,647,392
US 7,734,749
US 7,756,102
US 7,937,060
US 8,154,741
DE 602008018320.3
EP 1942618
FR 1942618
GB 1942618
JP 4845871
JP 5089323
KR 10-954973

### APPLICATIONS (2)

EP 07117720.8
KR 10-2007-0100435