

| Number | Publication Number              | Authority     | Simple Legal Status | Title                                                                     | Standardized Current Assignee                               | Current Assignee                                                        | Original Assignee(Applicant)                        |
|--------|---------------------------------|---------------|---------------------|---------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------|
| 1      | <a href="#">US10061139B2</a>    | United States | Active              | Optical devices based on non-periodic sub-wavelength gratings             | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                               | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 2      | <a href="#">US10111053B2</a>    | United States | Active              | Overlaying virtual broadcast domains on an underlying physical network    | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                                             | ARUBA NETWORKS, INC.                                |
| 3      | <a href="#">US10165009B2</a>    | United States | Active              | Distributed network connection policy management                          | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS                     | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 4      | <a href="#">US10198709B2</a>    | United States | Active              | Managing assets using at least one policy and asset locations             | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS                     | BRIGNONE, CYRIL   MCREYNOLDS, ALAN   TOURIHES, JEAN |
| 5      | <a href="#">US20090027763A1</a> | United States | Active              | MEMS device with nanowire standoff layer                                  | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                               | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 6      | <a href="#">US20090034908A1</a> | United States | Active              | Photonic guiding device                                                   | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 7      | <a href="#">US7222246B2</a>     | United States | Active              | Method for determining number of dynamically temperature-adjusted         | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                               | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 8      | <a href="#">US7228472B2</a>     | United States | Active              | System and method to control data capture                                 | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS                     | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 9      | <a href="#">US7243877B1</a>     | United States | Active              | Tape reel                                                                 | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 10     | <a href="#">US7262964B1</a>     | United States | Active              | Airflow control baffle                                                    | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 11     | <a href="#">US7289868B2</a>     | United States | Active              | System and method for calculating a shift value between pattern instances | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS                     | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 12     | <a href="#">US7290176B2</a>     | United States | Active              | Method and system for generating stacked register dumps from backing      | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS                     | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 13     | <a href="#">US7298272B2</a>     | United States | Active              | Remote detection employing RFID                                           | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 14     | <a href="#">US7307862B2</a>     | United States | Active              | Circuit and system for accessing memory modules                           | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS                     | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 15     | <a href="#">US7308605B2</a>     | United States | Active              | Latent error detection                                                    | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS                     | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 16     | <a href="#">US7310681B2</a>     | United States | Active              | System and method for modeling the memory state of a streaming media      | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS                     | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 17     | <a href="#">US7324685B2</a>     | United States | Active              | Inspection systems and methods                                            | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                               | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 18     | <a href="#">US7325170B2</a>     | United States | Active              | Method and system for providing information for remote device             | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS                     | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 19     | <a href="#">US7330119B2</a>     | United States | Active              | Remote measurement employing RFID                                         | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                               | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 20     | <a href="#">US7336490B2</a>     | United States | Active              | Multi-chip module with power system                                       | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 21     | <a href="#">US7337018B2</a>     | United States | Active              | Heat sink fan management based on performance requirements                | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 22     | <a href="#">US7339490B2</a>     | United States | Active              | Modular sensor assembly                                                   | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 23     | <a href="#">US7349335B2</a>     | United States | Active              | Packet metering in high-speed network units                               | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                               | 3COM CORPORATION                                    |
| 24     | <a href="#">US7353375B2</a>     | United States | Active              | Method and apparatus for managing processor availability using a          | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS                     | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 25     | <a href="#">US7362750B2</a>     | United States | Active              | Switch module architecture                                                | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                               | 3COM CORPORATION                                    |
| 26     | <a href="#">US7372820B1</a>     | United States | Active              | System and method for stripping delay sensitive data over multiple bursty | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 27     | <a href="#">US7373059B2</a>     | United States | Active              | Compact, single chip-based, entangled polarization-state photon           | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                               | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 28     | <a href="#">US7373565B2</a>     | United States | Active              | Start/stop circuit for performance counter                                | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 29     | <a href="#">US7376799B2</a>     | United States | Active              | System for reducing the latency of exclusive read requests in a           | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 30     | <a href="#">US7376805B2</a>     | United States | Active              | Distributed storage array                                                 | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS                     | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 31     | <a href="#">US7380146B2</a>     | United States | Active              | Power management system                                                   | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                               | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 32     | <a href="#">US7380723B1</a>     | United States | Active              | Monitoring object movement                                                | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 33     | <a href="#">US7382847B2</a>     | United States | Active              | Programmable sync pulse generator                                         | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                                             | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 34     | <a href="#">US7383471B2</a>     | United States | Active              | Diagnostic memory dumping                                                 | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS                     | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 35     | <a href="#">US7386744B2</a>     | United States | Active              | Rack equipment power pricing plan control system and method               | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                                             | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 36     | <a href="#">US7392172B2</a>     | United States | Active              | Providing virtual device access via firmware                              | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS                     | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 37     | <a href="#">US7403484B2</a>     | United States | Active              | Switching fabrics and control protocols for them                          | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                                             | 3COM CORPORATION                                    |
| 38     | <a href="#">US7403535B2</a>     | United States | Active              | Aggregation of network resources providing offloaded connections          | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                                             | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 39     | <a href="#">US7416128B2</a>     | United States | Active              | Methods and systems for determining the position of a hand-               | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS                     | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 40     | <a href="#">US7420968B2</a>     | United States | Active              | High-speed switch architecture                                            | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                               | 3COM CORPORATION                                    |
| 41     | <a href="#">US7426656B2</a>     | United States | Active              | Method and system executing user programs on non-deterministic            | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                                             | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 42     | <a href="#">US7439918B2</a>     | United States | Active              | Computer network and method of operating same to preload content of       | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                                             | 3COM CORPORATION                                    |
| 43     | <a href="#">US7437338B1</a>     | United States | Active              | Providing information regarding a trend based on output of a              | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS                     | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 44     | <a href="#">US7444489B2</a>     | United States | Active              | Applications for non-disruptively moving data between logical disk        | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                               | 3PARDATA, INC.                                      |
| 45     | <a href="#">US7447026B2</a>     | United States | Active              | System for hot swapping heat exchangers                                   | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS                     | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 46     | <a href="#">US7447205B2</a>     | United States | Active              | Systems and methods to insert broadcast transactions into a fast          | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 47     | <a href="#">US7447889B2</a>     | United States | Active              | Method and apparatus for configuring a computer system                    | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                               | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 48     | <a href="#">US7447971B2</a>     | United States | Active              | Data recovery systems and methods                                         | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 49     | <a href="#">US7454514B2</a>     | United States | Active              | Processing data with uncertain arrival time                               | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS                     | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 50     | <a href="#">US7460470B2</a>     | United States | Active              | Systems and methods of priority failover determination                    | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS                     | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 51     | <a href="#">US7461216B2</a>     | United States | Active              | Memory controller                                                         | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                               | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 52     | <a href="#">US7463620B2</a>     | United States | Active              | Architecture and method for controlling features and services in          | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | 3COM CORPORATION                                    |
| 53     | <a href="#">US7463654B2</a>     | United States | Active              | Stackable routers employing a routing protocol                            | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                                             | 3COM CORPORATION                                    |
| 54     | <a href="#">US7464284B2</a>     | United States | Active              | Systems and methods for driving data over a bus where the systems employ  | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                                             | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 55     | <a href="#">US7465954B2</a>     | United States | Active              | Nanowire devices and systems, light-emitting nanowires, and methods of    | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                               | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |
| 56     | <a href="#">US7466410B2</a>     | United States | Active              | Photonic-based sensors and methods for detecting analytes                 | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                               | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.           |

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| 57  | <a href="#">US7466668B2</a> | United States | Active | Reduced pin-count system interface for gigabit ethernet physical layer       | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 58  | <a href="#">US7467327B2</a> | United States | Active | Method and system of aligning execution point of duplicate copies of         | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 59  | <a href="#">US7467329B1</a> | United States | Active | Method of estimating storage system reliability                              | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 60  | <a href="#">US7468982B2</a> | United States | Active | Method and apparatus for cluster interconnection using multi-port            | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | COMPAQ INFORMATION TECHNOLOGIES GROUP, L.P. |
| 61  | <a href="#">US7471623B2</a> | United States | Active | Systems and methods for a unified computer system fabric                     | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 62  | <a href="#">US7471638B2</a> | United States | Active | Testing for a misconnection between first and second networks                | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 63  | <a href="#">US7472283B2</a> | United States | Active | Method and apparatus for secured digital video and access tracking           | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | COMPAQ INFORMATION TECHNOLOGIES GROUP, L.P. |
| 64  | <a href="#">US7472398B2</a> | United States | Active | Method and system for hosting an application with a facade server            | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 65  | <a href="#">US7474229B2</a> | United States | Active | Computer system indicator panel with exposed indicator edge                  | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 66  | <a href="#">US7474793B2</a> | United States | Active | Methods for compression using a denoiser                                     | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 67  | <a href="#">US7474810B2</a> | United States | Active | Method and apparatus for controlling light flux with sub-micron plasmon      | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 68  | <a href="#">US7474823B2</a> | United States | Active | Tunable dispersion compensation                                              | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 69  | <a href="#">US7478265B2</a> | United States | Active | Error recovery for input/output operations                                   | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 70  | <a href="#">US7478394B1</a> | United States | Active | Context-corrupting context switching                                         | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 71  | <a href="#">US7480260B1</a> | United States | Active | Method and apparatus for implementing a presence-based LP                    | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | 3COM CORPORATION                            |
| 72  | <a href="#">US7480299B2</a> | United States | Active | Rules engine for access control lists in network units                       | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | 3COM CORPORATION                            |
| 73  | <a href="#">US7480300B2</a> | United States | Active | Content addressable memory organized to share entries between                | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | 3COM CORPORATION                            |
| 74  | <a href="#">US7480797B2</a> | United States | Active | Method and system for preventing current-privilege-level information         | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 75  | <a href="#">US7480836B2</a> | United States | Active | Monitoring error-handler vector in architected memory                        | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 76  | <a href="#">US7483142B2</a> | United States | Active | Security systems and monitoring methods using quantum states                 | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 77  | <a href="#">US7483394B2</a> | United States | Active | System and method for automatically managing a network port based on a       | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | 3COM CORPORATION                            |
| 78  | <a href="#">US7483999B2</a> | United States | Active | Distributed bridging with synchronization forwarding                         | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | 3COM CORPORATION                            |
| 79  | <a href="#">US7484221B2</a> | United States | Active | Method and apparatus for logging the execution history of an operating       | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 80  | <a href="#">US7484237B2</a> | United States | Active | Method and apparatus for role-based security policy management               | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 81  | <a href="#">US7487255B2</a> | United States | Active | Routing cache management with route fragmentation                            | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 82  | <a href="#">US7487311B2</a> | United States | Active | System and method for asynchronous backup of virtual disks                   | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 83  | <a href="#">US7489538B2</a> | United States | Active | Constant-weight-code-based addressing of nanoscale and mixed                 | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 84  | <a href="#">US7492803B2</a> | United States | Active | Fiber-coupled single photon source LP                                        | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 85  | <a href="#">US7492979B2</a> | United States | Active | Photonic crystal laser sensors and methods                                   | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 86  | <a href="#">US7493620B2</a> | United States | Active | Transfer of waiting interrupts                                               | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 87  | <a href="#">US7498524B2</a> | United States | Active | Enclosure and gasket assembly for reducing EMI                               | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 88  | <a href="#">US7499286B2</a> | United States | Active | Mounting adapter for electronic modules                                      | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 89  | <a href="#">US7499615B2</a> | United States | Active | System and methods for routing optical signals                               | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 90  | <a href="#">US7500056B2</a> | United States | Active | System and method to facilitate reset in a computer system                   | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 91  | <a href="#">US7502333B2</a> | United States | Active | Pre-configured topology with connection management                           | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 92  | <a href="#">US7502699B2</a> | United States | Active | System and method for monitoring power in a front end rectifier power        | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 93  | <a href="#">US7502803B2</a> | United States | Active | System and method for generating ACPI machine language tables                | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 94  | <a href="#">US7502888B2</a> | United States | Active | Symmetric multiprocessor system                                              | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 95  | <a href="#">US7502895B2</a> | United States | Active | Techniques for reducing coudts in a snoop filter                             | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 96  | <a href="#">US7502903B2</a> | United States | Active | Method and apparatus for managing data storage systems                       | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | 3PARDATA, INC.                              |
| 97  | <a href="#">US7502971B2</a> | United States | Active | Determining a recurrent problem of a computer resource using signatures      | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 98  | <a href="#">US7505261B2</a> | United States | Active | Electrical-optical signal conversion for automated storage systems           | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 99  | <a href="#">US7505486B2</a> | United States | Active | Degradable network data path transmission scheme                             | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 100 | <a href="#">US7505868B1</a> | United States | Active | Performing quality determination of data                                     | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 101 | <a href="#">US7509657B2</a> | United States | Active | Application programming interface for a virtual switch                       | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 102 | <a href="#">US7512066B2</a> | United States | Active | Congestion control system                                                    | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 103 | <a href="#">US7512240B2</a> | United States | Active | Management of security key distribution                                      | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 104 | <a href="#">US7512600B2</a> | United States | Active | Use of multi-joint operator and rules as framework for joint tree processing | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 105 | <a href="#">US7512825B2</a> | United States | Active | Responding to DC power degradation LP                                        | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 106 | <a href="#">US7514816B2</a> | United States | Active | Output current threshold adjustment for a power supply                       | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 107 | <a href="#">US7515428B2</a> | United States | Active | Design for automatic positioning of power supply module handle               | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 108 | <a href="#">US7516297B2</a> | United States | Active | Memory management                                                            | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 109 | <a href="#">US7516326B2</a> | United States | Active | Authentication system and method                                             | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 110 | <a href="#">US7516358B2</a> | United States | Active | Tuning core voltages of processors                                           | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 111 | <a href="#">US7517794B2</a> | United States | Active | Method for fabricating nanoscale features                                    | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 112 | <a href="#">US7518418B1</a> | United States | Active | Ratio granularity clock divider circuit and method                           | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 113 | <a href="#">US7519245B2</a> | United States | Active | Modular array computer with optical intercell communications pathways LP     | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |

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| 114 | <a href="#">US7519822B2</a> | United States | Active | Method and apparatus for processing descriptive statements               | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 115 | <a href="#">US7521972B2</a> | United States | Active | Fifty percent duty cycle clock divider circuit and method                | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | WILSON, CHRISTOPHER   BERKRAM, DANIEL ALAN |
| 116 | <a href="#">US7522614B1</a> | United States | Active | Multi-service access platform for telecommunications and data            | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | 3COM CORPORATION                           |
| 117 | <a href="#">US7523454B2</a> | United States | Active | Apparatus and method for routing a transaction to a partitioned server   | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 118 | <a href="#">US7525833B2</a> | United States | Active | Nanoscale shift register and signal demultiplexing using                 | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 119 | <a href="#">US7526081B1</a> | United States | Active | Telephone recording and storing arbitrary keystrokes sequence with       | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | 3COM CORPORATION                           |
| 120 | <a href="#">US7529060B2</a> | United States | Active | Read and write head element arrangement                                  | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 121 | <a href="#">US7529949B1</a> | United States | Active | Heterogeneous power supply management system                             | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 122 | <a href="#">US7529966B2</a> | United States | Active | Storage system with journaling                                           | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 123 | <a href="#">US7530032B2</a> | United States | Active | Nanowire crossbar implementations of logic gates using configurable,     | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 124 | <a href="#">US7530057B2</a> | United States | Active | Program code coverage                                                    | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 125 | <a href="#">US7530064B2</a> | United States | Active | Method and apparatus for automated registry clean-up                     | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 126 | <a href="#">US7532474B2</a> | United States | Active | Apparatus for dissipating heat from electronic components in an          | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | 3COM CORPORATION                           |
| 127 | <a href="#">US7532618B1</a> | United States | Active | Performing operations on IP telephony devices from a remote              | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | 3COM CORPORATION                           |
| 128 | <a href="#">US7533109B2</a> | United States | Active | Item queue management                                                    | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 129 | <a href="#">US7533285B2</a> | United States | Active | Synchronizing link delay measurement over serial links                   | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 130 | <a href="#">US7533293B2</a> | United States | Active | Systems and methods for CPU repair                                       | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 131 | <a href="#">US7533303B2</a> | United States | Active | Method and system for performing system-level correction of memory       | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 132 | <a href="#">US7536684B2</a> | United States | Active | Software documentation generation using differential upgrade             | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 133 | <a href="#">US7539931B2</a> | United States | Active | Storage element for mitigating soft errors in logic                      | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 134 | <a href="#">US7540746B2</a> | United States | Active | Electrical encoding of cable types and configurations                    | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 135 | <a href="#">US7543113B2</a> | United States | Active | Cache memory system and method capable of adaptively                     | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 136 | <a href="#">US7543173B2</a> | United States | Active | Timestamp generator                                                      | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 137 | <a href="#">US7543291B2</a> | United States | Active | Processor purging system and method                                      | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 138 | <a href="#">US7544072B2</a> | United States | Active | Retractable protection apparatus for electronic device pins              | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 139 | <a href="#">US7544591B2</a> | United States | Active | Method of creating isolated electrodes in a nanowire-based               | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 140 | <a href="#">US7545651B2</a> | United States | Active | Memory module with a predetermined arrangement of pins                   | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 141 | <a href="#">US7546013B1</a> | United States | Active | Nanoparticle coupled to waveguide                                        | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY        |
| 142 | <a href="#">US7546600B2</a> | United States | Active | Method of assigning virtual process identifier to process within process | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY        |
| 143 | <a href="#">US7549085B2</a> | United States | Active | Method and apparatus to insert special instruction                       | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 144 | <a href="#">US7551039B2</a> | United States | Active | Phase adjustment in phase-locked loops using multiple oscillator signals | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 145 | <a href="#">US7551614B2</a> | United States | Active | Aggregation over multiple processing nodes of network resources each     | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 146 | <a href="#">US7552238B2</a> | United States | Active | Method and apparatus for maintaining network device                      | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 147 | <a href="#">US7552434B2</a> | United States | Active | Method of performing kernel task upon initial execution of process at    | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 148 | <a href="#">US7555644B2</a> | United States | Active | System and method for operating system image provisioning in a utility   | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 149 | <a href="#">US7555751B1</a> | United States | Active | Method and system for performing a live system upgrade                   | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | 3COM CORPORATION                           |
| 150 | <a href="#">US7562356B2</a> | United States | Active | Automatically resolving patch dependencies for a path bundle             | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 151 | <a href="#">US7564835B1</a> | United States | Active | System and method for maximizing the use of bandwidth optimization       | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | 3COM CORPORATION                           |
| 152 | <a href="#">US7564861B1</a> | United States | Active | Systems and methods for compressing data                                 | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | 3COM CORPORATION                           |
| 153 | <a href="#">US7567097B2</a> | United States | Active | Pre-driver circuit and apparatus using same                              | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 154 | <a href="#">US7570591B2</a> | United States | Active | Method and apparatus for negotiating link speed and                      | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 155 | <a href="#">US7571143B2</a> | United States | Active | Software pay-per-use pricing                                             | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 156 | <a href="#">US7571163B2</a> | United States | Active | Method for sorting a data structure                                      | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 157 | <a href="#">US7574341B1</a> | United States | Active | Speculative expectation based event verification                         | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 158 | <a href="#">US7577945B2</a> | United States | Active | Memory mapped lazy signal blocking                                       | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 159 | <a href="#">US7578733B2</a> | United States | Active | Enclosures with redundant fans in doors with interlocks                  | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 160 | <a href="#">US7580415B2</a> | United States | Active | Aggregation of hybrid network resources operable to support both         | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 161 | <a href="#">US7580814B1</a> | United States | Active | Sequence simulator                                                       | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 162 | <a href="#">US7581008B2</a> | United States | Active | System and method for allocating server resources                        | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 163 | <a href="#">US7581242B1</a> | United States | Active | Authenticating products                                                  | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 164 | <a href="#">US7582975B1</a> | United States | Active | Nanowire device and method of making the same                            | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 165 | <a href="#">US7587555B2</a> | United States | Active | Program thread synchronization                                           | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 166 | <a href="#">US7590509B2</a> | United States | Active | System and method for testing a processor                                | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 167 | <a href="#">US7590885B2</a> | United States | Active | Method and system of copying memory from a source processor to a         | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 168 | <a href="#">US7590909B2</a> | United States | Active | In-circuit testing system and method                                     | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 169 | <a href="#">US7592679B1</a> | United States | Active | Sensor and method for making the same                                    | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |
| 170 | <a href="#">US7594016B1</a> | United States | Active | Calculating numbers of servers for tiers of a multi-tiered system        | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  |

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| 171 | <a href="#">US7594047B2</a> | United States | Active   | Buffer circuit                                                               | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 172 | <a href="#">US7594221B2</a> | United States | Inactive | Method and apparatus for translating binary code                             | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 173 | <a href="#">US7594223B2</a> | United States | Active   | Straight-line post-increment optimization for memory access                  | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 174 | <a href="#">US7594233B2</a> | United States | Active   | Processing thread launching using volunteer information                      | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 175 | <a href="#">US7596614B2</a> | United States | Active   | Network including snooping                                                   | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | 3COM CORPORATION                          |
| 176 | <a href="#">US7596618B2</a> | United States | Active   | Splitting a workload of a node                                               | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 177 | <a href="#">US7596694B1</a> | United States | Active   | System and method for safely executing downloaded code on a                  | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 178 | <a href="#">US7599235B2</a> | United States | Active   | Memory correction system and method                                          | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 179 | <a href="#">US7599379B2</a> | United States | Active   | Registering stations between protocols                                       | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 180 | <a href="#">US7600023B2</a> | United States | Active   | Systems and methods of balancing crossbar bandwidth                          | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 181 | <a href="#">US7600111B2</a> | United States | Active   | Method of restarting a computer platform                                     | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 182 | <a href="#">US7603486B2</a> | United States | Active   | Network management system providing logic signals over                       | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | 3COM CORPORATION                          |
| 183 | <a href="#">US7606842B2</a> | United States | Active   | Method of merging a clone file system with an original file system           | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 184 | <a href="#">US7607014B2</a> | United States | Active   | Authenticating maintenance access to an electronics unit via wireless        | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 185 | <a href="#">US7607040B2</a> | United States | Active   | Methods and systems for conducting processor health-checks                   | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 186 | <a href="#">US7607120B2</a> | United States | Active   | Method and apparatus for creating data transformation routines for           | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 187 | <a href="#">US7607123B2</a> | United States | Active   | Systems and methods for validating debug information for optimized           | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 188 | <a href="#">US7607136B2</a> | United States | Active   | Method and apparatus for interfacing with a distributed computing service    | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 189 | <a href="#">US7610383B2</a> | United States | Active   | Data-object-related-request routing in a dynamic, distributed data           | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 190 | <a href="#">US7610429B2</a> | United States | Active   | Method and system for determining device criticality in a computer           | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 191 | <a href="#">US7610468B2</a> | United States | Active   | Modified buddy system memory allocation                                      | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 192 | <a href="#">US7610526B2</a> | United States | Active   | On-chip circuitry for bus validation                                         | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 193 | <a href="#">US7613847B2</a> | United States | Active   | Partially virtualizing an I/O device for use by virtual machines             | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 194 | <a href="#">US7620984B2</a> | United States | Active   | Method of managing computer system                                           | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 195 | <a href="#">US7624009B2</a> | United States | Active   | Method and system for producing variable length context models               | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 196 | <a href="#">US7624234B2</a> | United States | Active   | Directory caches, and methods for operation thereof                          | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 197 | <a href="#">US7624319B2</a> | United States | Active   | Performance monitoring system                                                | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 198 | <a href="#">US7631251B2</a> | United States | Active   | Method and apparatus for calculating checksums                               | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 199 | <a href="#">US7631269B2</a> | United States | Active   | Utility, method and device providing vector images that may be updated       | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 200 | <a href="#">US7633928B2</a> | United States | Active   | Communication data method and system for voice applications                  | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 201 | <a href="#">US7634656B2</a> | United States | Active   | Method and apparatus for identifying a voice caller                          | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD COMPANY                   |
| 202 | <a href="#">US7634773B2</a> | United States | Active   | Method and apparatus for thread scheduling on multiple processors            | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 203 | <a href="#">US7636643B1</a> | United States | Active   | Gauge having a dynamically updated indicia of a value's normal range, and    | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 204 | <a href="#">US7639953B2</a> | United States | Active   | Compact systems for generating polarization-entangled photons                | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | SUN CHEMICAL CORPORATION                  |
| 205 | <a href="#">US7640323B2</a> | United States | Active   | System and method for hot deployment/redeployment in grid                    | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 206 | <a href="#">US7643434B2</a> | United States | Active   | Method and system for managing network nodes which communicate               | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 207 | <a href="#">US7643458B1</a> | United States | Active   | Communicating between wireless communities                                   | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 208 | <a href="#">US7643983B2</a> | United States | Active   | Data storage system emulation                                                | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 209 | <a href="#">US7644146B2</a> | United States | Active   | System and method for discovering communities in networks                    | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 210 | <a href="#">US7644204B2</a> | United States | Active   | SCSI I/O coordinator                                                         | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 211 | <a href="#">US7650040B2</a> | United States | Active   | Method, apparatus and system for data block rearrangement for LZ data        | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT CO., L.P.     |
| 212 | <a href="#">US7650275B2</a> | United States | Active   | Virtualization of a partition based on addresses of an I/O adapter within an | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 213 | <a href="#">US7650386B2</a> | United States | Active   | Communication among partitioned devices                                      | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 214 | <a href="#">US7650494B2</a> | United States | Active   | Method and apparatus for use in relation to verifying an association         | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 215 | <a href="#">US7651871B2</a> | United States | Active   | Device for forming magnetic well for nanoparticles                           | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 216 | <a href="#">US7657776B2</a> | United States | Active   | Containing machine check events in a virtual partition                       | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 217 | <a href="#">US7657926B1</a> | United States | Active   | Enabling network communication from role based authentication                | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | 3COM CORPORATION                          |
| 218 | <a href="#">US7660323B2</a> | United States | Active   | Cascade control system for network units                                     | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | 3COM CORPORATION                          |
| 219 | <a href="#">US7660937B2</a> | United States | Active   | Emulating a USB host controller                                              | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 220 | <a href="#">US7661095B2</a> | United States | Active   | System and method to build a calligraph for functions with multiple          | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 221 | <a href="#">US7671634B2</a> | United States | Active   | Redundant clock switch circuit                                               | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 222 | <a href="#">US7672923B1</a> | United States | Active   | Grid network management via automatic trend analysis of a service            | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 223 | <a href="#">US7672929B2</a> | United States | Active   | Database modification history                                                | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 224 | <a href="#">US7673082B2</a> | United States | Active   | Method and system to determine device criticality for hot-plugging in        | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 225 | <a href="#">US7673125B2</a> | United States | Active   | Resetting multiple cells within a partition of a multiple partition          | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 226 | <a href="#">US7673305B2</a> | United States | Active   | System and method of expediting certain jobs in a computer processing        | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
| 227 | <a href="#">US7680590B2</a> | United States | Active   | Boundary detection algorithm for embedded devices                            | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |

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| 228 | <a href="#">US7684383B1</a> | United States | Active | Method and system for dynamic call type detection for circuit and packet | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | 3COM CORPORATION                            |
| 229 | <a href="#">US7693045B2</a> | United States | Active | Verifying network connectivity                                           | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 230 | <a href="#">US7694123B2</a> | United States | Active | Storing files for operating system restoration                           | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 231 | <a href="#">US7697690B2</a> | United States | Active | Windowed backward key rotation                                           | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 232 | <a href="#">US7698545B1</a> | United States | Active | Computer configuration chronology generator                              | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 233 | <a href="#">US7702903B1</a> | United States | Active | License re-allocation system and method                                  | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | 3COM CORPORATION                            |
| 234 | <a href="#">US7707215B1</a> | United States | Active | Parimutuel content provisioning                                          | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 235 | <a href="#">US7710428B2</a> | United States | Active | Method and apparatus for filtering the display of vectors in a vector    | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 236 | <a href="#">US7710862B2</a> | United States | Active | Method and system of assigning media access control (MAC)                | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 237 | <a href="#">US7711657B1</a> | United States | Active | Resource-reservation pricing structures based on expected ability        | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 238 | <a href="#">US7711744B1</a> | United States | Active | Simple and fast directory search with reduced keystrokes and reduced     | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | 3COM CORPORATION                            |
| 239 | <a href="#">US7711914B2</a> | United States | Active | Debugging using virtual watchpoints                                      | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 240 | <a href="#">US7712102B2</a> | United States | Active | System and method for dynamically configuring a plurality of load        | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 241 | <a href="#">US7721133B2</a> | United States | Active | Systems and methods of synchronizing reference frequencies               | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 242 | <a href="#">US7724985B2</a> | United States | Active | Device storing vector image with embedded image style identifier, and    | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 243 | <a href="#">US7729368B2</a> | United States | Active | Network buffer caching                                                   | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 244 | <a href="#">US7730218B2</a> | United States | Active | Method and system for configuration and management of client access to   | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 245 | <a href="#">US7730350B2</a> | United States | Active | Method and system of determining the execution point of programs         | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 246 | <a href="#">US7730365B1</a> | United States | Active | Workload management for maintaining redundancy of non-data               | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 247 | <a href="#">US7734622B1</a> | United States | Active | Media-driven browsing                                                    | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 248 | <a href="#">US7734867B1</a> | United States | Active | Data storage using disk drives in accordance with a schedule of          | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 249 | <a href="#">US7734960B2</a> | United States | Active | Method of managing nodes in computer cluster                             | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 250 | <a href="#">US7738681B1</a> | United States | Active | Fingerprint and physical attribute detection                             | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 251 | <a href="#">US7739485B2</a> | United States | Active | Cached field replaceable unit EEPROM data                                | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | COMPAQ INFORMATION TECHNOLOGIES GROUP, L.P. |
| 252 | <a href="#">US7739536B2</a> | United States | Active | Intelligent frequency and voltage margining                              | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 253 | <a href="#">US7742310B2</a> | United States | Active | Sequencer                                                                | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY LP      |
| 254 | <a href="#">US7743244B2</a> | United States | Active | Computer system model generation with tracking of actual computer        | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 255 | <a href="#">US7743380B2</a> | United States | Active | Monitoring clustered software applications                               | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 256 | <a href="#">US7743383B2</a> | United States | Active | Adaptive cooperative scheduling                                          | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 257 | <a href="#">US7752623B1</a> | United States | Active | System and method for allocating resources by examining a system         | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 258 | <a href="#">US7757023B1</a> | United States | Active | Storage-centric manageability in a system                                | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 259 | <a href="#">US7761421B2</a> | United States | Active | Read, write, and recovery operations for replicated data                 | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 260 | <a href="#">US7765242B2</a> | United States | Active | Methods and apparatus for structure layout optimization for multi-       | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 261 | <a href="#">US7765299B2</a> | United States | Active | Dynamic adaptive server provisioning for blade architectures             | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD COMPANY                     |
| 262 | <a href="#">US7765528B2</a> | United States | Active | Identifying sources of memory retention                                  | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 263 | <a href="#">US7765550B2</a> | United States | Active | System for controlling context switch of deferred requests using counter | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 264 | <a href="#">US7765552B2</a> | United States | Active | System and method for allocating computing resources for a grid virtual  | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 265 | <a href="#">US7770056B2</a> | United States | Active | System and method for dynamic page classification for memory dumping     | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 266 | <a href="#">US7774457B1</a> | United States | Active | Resource evaluation for a batch job and an interactive session           | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 267 | <a href="#">US7774611B2</a> | United States | Active | Enforcing file authorization access                                      | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 268 | <a href="#">US7774652B2</a> | United States | Active | Circuitry and method to detect conditions of data                        | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 269 | <a href="#">US7783823B2</a> | United States | Active | Hardware device data buffer                                              | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 270 | <a href="#">US7788477B1</a> | United States | Active | Methods, apparatus and articles of manufacture to control operating      | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 271 | <a href="#">US7792055B2</a> | United States | Active | Method and system for determining the topology of a network              | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 272 | <a href="#">US7797505B2</a> | United States | Active | Program stack handling                                                   | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 273 | <a href="#">US7802094B2</a> | United States | Active | Reduction of false positive detection of signature matches in intrusion  | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | 3COM CORPORATION                            |
| 274 | <a href="#">US7805041B2</a> | United States | Active | Electromagnetic radiation amplification systems based on                 | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 275 | <a href="#">US7806333B1</a> | United States | Active | Tracking RFID tags with overlapping antennas                             | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 276 | <a href="#">US7814467B2</a> | United States | Active | Program optimization using object file summary information               | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 277 | <a href="#">US7816975B2</a> | United States | Active | Circuit and method for bias voltage generation                           | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 278 | <a href="#">US7817849B2</a> | United States | Active | Method and apparatus for graphical data compression                      | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 279 | <a href="#">US7818623B2</a> | United States | Active | Kernel debugging in a cluster computing system                           | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 280 | <a href="#">US7818646B1</a> | United States | Active | Expectation based event verification                                     | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 281 | <a href="#">US7822857B2</a> | United States | Active | Methods and systems for sharing remote access                            | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 282 | <a href="#">US7823154B2</a> | United States | Active | System and method for providing, by a plurality of schedulers,           | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 283 | <a href="#">US7823156B2</a> | United States | Active | Method of hashing address space to storage servers                       | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 284 | <a href="#">US7825512B2</a> | United States | Active | Electronic package with compliant electrically-conductive ball           | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |

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|-----|-----------------------------|---------------|--------|--------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------|
| 285 | <a href="#">US7827266B2</a> | United States | Active | System and method of controlling multiple computer platforms             | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 286 | <a href="#">US7831731B2</a> | United States | Active | Method and system for a modular transmission control protocol (TCP)      | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 287 | <a href="#">US7831768B2</a> | United States | Active | Method and apparatus for writing data to a disk array                    | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 288 | <a href="#">US7835602B2</a> | United States | Active | Photonic guiding device                                                  | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 289 | <a href="#">US7836111B1</a> | United States | Active | Detecting change in data                                                 | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 290 | <a href="#">US7839765B2</a> | United States | Active | Advertising port state changes in a network                              | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 291 | <a href="#">US7840725B2</a> | United States | Active | Capture of data in a computer network                                    | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 292 | <a href="#">US7840850B2</a> | United States | Active | Data processing system for logging memory access data                    | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 293 | <a href="#">US7849320B2</a> | United States | Active | Method and system for establishing a consistent password policy          | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 294 | <a href="#">US7853825B2</a> | United States | Active | Methods and apparatus for recovering from fatal errors in a              | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 295 | <a href="#">US7853934B2</a> | United States | Active | Hot-swapping a dynamic code generator                                    | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 296 | <a href="#">US7855957B2</a> | United States | Active | Method and system of transmit load balancing across multiple physical    | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 297 | <a href="#">US7856420B2</a> | United States | Active | Zero latency enterprise enriched publish/subscribe                       | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | COMPAQ INFORMATION TECHNOLOGIES GROUP, L.P. |
| 298 | <a href="#">US7856488B2</a> | United States | Active | Electronic device profile migration                                      | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 299 | <a href="#">US7856549B2</a> | United States | Active | Regulating power consumption                                             | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 300 | <a href="#">US7861042B2</a> | United States | Active | Processor acquisition of ownership of access coordinator for shared      | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 301 | <a href="#">US7869714B2</a> | United States | Active | Electronic system having free space optical elements                     | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 302 | <a href="#">US7870188B2</a> | United States | Active | Systems and methods for exposing web services                            | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 303 | <a href="#">US7870256B2</a> | United States | Active | Remote desktop performance model for assigning resources                 | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 304 | <a href="#">US7872502B2</a> | United States | Active | Defect-and-failure-tolerant demultiplexer using series replication       | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 305 | <a href="#">US7872965B2</a> | United States | Active | Network resource teaming providing resource redundancy and               | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 306 | <a href="#">US7873723B2</a> | United States | Active | Device data                                                              | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 307 | <a href="#">US7876689B2</a> | United States | Active | Method and apparatus for load balancing network interface adapters       | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 308 | <a href="#">US7876694B2</a> | United States | Active | Identifying VPN faults based on virtual routing address and edge         | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 309 | <a href="#">US7877607B2</a> | United States | Active | Tamper-evident data management                                           | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 310 | <a href="#">US7877645B2</a> | United States | Active | Use of operational configuration parameters to predict system failures   | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 311 | <a href="#">US7877740B2</a> | United States | Active | Handling caught exceptions                                               | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 312 | <a href="#">US7877799B2</a> | United States | Active | Performance of a service on a computing platform                         | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD COMPANY                     |
| 313 | <a href="#">US7877803B2</a> | United States | Active | Automated immune response for a computer                                 | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 314 | <a href="#">US7886055B1</a> | United States | Active | Allocating resources in a system having multiple tiers                   | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 315 | <a href="#">US7886430B2</a> | United States | Active | Method of installing circuit board component                             | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 316 | <a href="#">US7890999B2</a> | United States | Active | RPC port mapper integrity checker to improve security of a provisionable | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 317 | <a href="#">US7895409B2</a> | United States | Active | Application inspection tool for determining a security partition         | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 318 | <a href="#">US7895455B2</a> | United States | Active | Dynamic converter control for efficient operation                        | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 319 | <a href="#">US7895581B2</a> | United States | Active | Profiling collector for computer system                                  | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 320 | <a href="#">US7903556B2</a> | United States | Active | Method of controlling data transfers between nodes in a computer system  | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 321 | <a href="#">US7904686B2</a> | United States | Active | Data security for use with a file system                                 | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 322 | <a href="#">US7910915B2</a> | United States | Active | Nanowire devices and systems, light-emitting nanowires, and methods of   | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 323 | <a href="#">US7911727B2</a> | United States | Active | Controlling motion of storage media                                      | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 324 | <a href="#">US7924413B2</a> | United States | Active | Nanowire-based photonic devices                                          | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 325 | <a href="#">US7925927B2</a> | United States | Active | Simulator for determining data loss in a fault tolerant system           | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 326 | <a href="#">US7926042B2</a> | United States | Active | System and method for dynamic instrumentation                            | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 327 | <a href="#">US7929418B2</a> | United States | Active | Data packet communication protocol offload method and system             | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT CO, L.P.        |
| 328 | <a href="#">US7929865B2</a> | United States | Active | Free space WDM signal detector                                           | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 329 | <a href="#">US7929919B2</a> | United States | Active | Systems and methods for a PLL-adjusted reference clock                   | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 330 | <a href="#">US7930486B2</a> | United States | Active | Cache chunked list concrete data type                                    | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 331 | <a href="#">US7930539B2</a> | United States | Active | Computer system resource access control                                  | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 332 | <a href="#">US7933966B2</a> | United States | Active | Method and system of copying a memory area between processor             | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 333 | <a href="#">US7933993B1</a> | United States | Active | Relocatable virtual port for accessing external storage                  | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 334 | <a href="#">US7936694B2</a> | United States | Active | Sniffing-based network monitoring                                        | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 335 | <a href="#">US7936738B2</a> | United States | Active | Fault tolerant systems                                                   | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 336 | <a href="#">US7937404B2</a> | United States | Active | Data processing system and method                                        | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 337 | <a href="#">US7937565B2</a> | United States | Active | Method and system for data speculation on multicore systems              | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 338 | <a href="#">US7939967B2</a> | United States | Active | Multiple power supply control                                            | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 339 | <a href="#">US7941569B2</a> | United States | Active | Input/output tracing in a protocol offload system                        | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 340 | <a href="#">US7941804B1</a> | United States | Active | Allocating resources among tiered partitions of different types          | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 341 | <a href="#">US7941812B2</a> | United States | Active | Input/output virtualization through offload techniques                   | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |

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| 342 | <a href="#">US7948916B2</a> | United States | Active | Method and apparatus for discovering topology information in a               | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 343 | <a href="#">US7953996B2</a> | United States | Active | ACPI to firmware interface                                                   | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 344 | <a href="#">US7954086B2</a> | United States | Active | Self-describing kernel modules                                               | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 345 | <a href="#">US7957364B2</a> | United States | Active | Determining network paths                                                    | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 346 | <a href="#">US7957390B2</a> | United States | Active | Detection of signatures in disordered message segments                       | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | 3COM CORPORATION                            |
| 347 | <a href="#">US7958343B2</a> | United States | Active | BIOS bootable RAID support                                                   | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 348 | <a href="#">US7962480B1</a> | United States | Active | Using a weighted tree to determine document relevance                        | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 349 | <a href="#">US7962734B2</a> | United States | Active | Method of restarting a computer platform                                     | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 350 | <a href="#">US7962789B2</a> | United States | Active | Method and apparatus for automated testing of a utility                      | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 351 | <a href="#">US7966402B2</a> | United States | Active | Switch to selectively couple any of a plurality of video modules to any of a | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 352 | <a href="#">US7966608B2</a> | United States | Active | Method and apparatus for providing a compiler interface                      | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 353 | <a href="#">US7967626B2</a> | United States | Active | Tamper-evident connector                                                     | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 354 | <a href="#">US7969969B2</a> | United States | Active | Signalling gateway                                                           | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 355 | <a href="#">US7970143B2</a> | United States | Active | System, method and apparatus to obtain a key for                             | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 356 | <a href="#">US7971193B2</a> | United States | Active | Methods for performing cross module context-sensitive security               | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 357 | <a href="#">US7975043B2</a> | United States | Active | Method and apparatus for monitoring a network                                | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 358 | <a href="#">US7983163B2</a> | United States | Active | System and method for implementing adaptive load sharing                     | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | INTERNATIONAL BUSINESS MACHINES CORPORATION |
| 359 | <a href="#">US7983422B2</a> | United States | Active | Quantum cryptography                                                         | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 360 | <a href="#">US7984150B2</a> | United States | Active | Cell compatibility in multiprocessor systems                                 | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 361 | <a href="#">US7992002B2</a> | United States | Active | Data depository and associated methodology providing secure access           | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | ELECTRONIC DATA SYSTEMS CORPORATION         |
| 362 | <a href="#">US7995339B2</a> | United States | Active | Control of vent tiles correlated with a rack                                 | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 363 | <a href="#">US7996825B2</a> | United States | Active | Cross-file inlining by using summaries and global workload                   | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 364 | <a href="#">US8000322B2</a> | United States | Active | Crossbar switch debugging                                                    | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 365 | <a href="#">US8000462B2</a> | United States | Active | Screening of calls in a packet-based network                                 | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 366 | <a href="#">US8018753B2</a> | United States | Active | Memory module including voltage sense monitoring interface                   | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 367 | <a href="#">US8019765B2</a> | United States | Active | Identifying files associated with a workflow                                 | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 368 | <a href="#">US8023495B1</a> | United States | Active | Method and system for WLAN synchronization                                   | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD COMPANY                     |
| 369 | <a href="#">US8023828B2</a> | United States | Active | Quantum information conversion between matter and light                      | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 370 | <a href="#">US8024514B2</a> | United States | Active | Access control management                                                    | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 371 | <a href="#">US8028174B2</a> | United States | Active | Controlling update of content of a programmable read-only memory             | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 372 | <a href="#">US8036983B2</a> | United States | Active | System for and method of web based non-wage compensation                     | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 373 | <a href="#">US8045562B2</a> | United States | Active | Estimating link interference and bandwidth                                   | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 374 | <a href="#">US8046529B2</a> | United States | Active | Updating control information in non-volatile memory to control selection     | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 375 | <a href="#">US8051176B2</a> | United States | Active | Method and system for predicting connections in a computer network           | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 376 | <a href="#">US8053748B2</a> | United States | Active | Integrated circuits with phase change devices                                | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 377 | <a href="#">US8059539B2</a> | United States | Active | Link throughput enhancer                                                     | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 378 | <a href="#">US8078705B2</a> | United States | Active | Key-configured topology with connection management                           | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | MODI, PRASHANT   HAMPTON, KATHRYN           |
| 379 | <a href="#">US8085888B2</a> | United States | Active | Method and system for determining an optimal or near optimal set of          | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 380 | <a href="#">US8098971B2</a> | United States | Active | Method and apparatus for electromagnetic resonance using                     | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 381 | <a href="#">US8108645B2</a> | United States | Active | Optimized memory allocation via feature extraction                           | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 382 | <a href="#">US8108871B2</a> | United States | Active | Controlling computer resource utilization                                    | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 383 | <a href="#">US8112700B2</a> | United States | Active | Nanoscale interconnection interface                                          | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 384 | <a href="#">US8127124B2</a> | United States | Active | Remote configuration of computing platforms                                  | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 385 | <a href="#">US8145627B2</a> | United States | Active | Use of connectivity analysis to assist rule-based optimizers                 | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 386 | <a href="#">US8156496B2</a> | United States | Active | Data processing system and method                                            | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 387 | <a href="#">US8166173B2</a> | United States | Active | Inviting assistant entity into a network communication session               | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 388 | <a href="#">US8171266B2</a> | United States | Active | Look-ahead load pre-fetch in a processor                                     | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 389 | <a href="#">US8174977B2</a> | United States | Active | End-to-end flow control in a network                                         | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 390 | <a href="#">US8190554B2</a> | United States | Active | OLAP-based customer behavior profiling method and system                     | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 391 | <a href="#">US8190742B2</a> | United States | Active | Distributed differential store with non-distributed objects and              | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 392 | <a href="#">US8205146B2</a> | United States | Active | Persistent error detection in digital memory                                 | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 393 | <a href="#">US8208616B2</a> | United States | Active | Conference-call system and conference-specific access codes                  | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 394 | <a href="#">US8209492B2</a> | United States | Active | Systems and methods of accessing common registers in a multi-core            | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 395 | <a href="#">US8212230B2</a> | United States | Active | Integrated circuits with phase change devices                                | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 396 | <a href="#">US8212235B2</a> | United States | Active | Nanowire-based opto-electronic devices                                       | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 397 | <a href="#">US8214601B2</a> | United States | Active | Purging without write-back of cache lines containing spent data              | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |
| 398 | <a href="#">US8214786B2</a> | United States | Active | Scalable, component-accessible, and highly interconnected three-             | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.   |

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| 399 | <a href="#">US8214838B2</a> | United States | Active | System and method for attributing to a corresponding virtual machine CPU  | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS       | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                            |
| 400 | <a href="#">US8218533B2</a> | United States | Active | Telephone recording and storing arbitrary keystrokes sequence with        | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                 | 3COM CORPORATION                                                     |
| 401 | <a href="#">US8230204B2</a> | United States | Active | Migration of system images                                                | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                               | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                            |
| 402 | <a href="#">US8230252B2</a> | United States | Active | Time of day response                                                      | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                               | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                            |
| 403 | <a href="#">US8254996B2</a> | United States | Active | Systems and methods for managing access channels                          | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                 | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                            |
| 404 | <a href="#">US8255513B2</a> | United States | Active | Topology information system for a managed world                           | MERCURY INTERACTIVE CORP                                    | MERCURY INTERACTIVE (ISRAEL) LTD.                         | ASSA, SHMUEL                                                         |
| 405 | <a href="#">US8274975B2</a> | United States | Active | System and method for automatically managing a network port based on a    | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                               | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                            |
| 406 | <a href="#">US8281151B2</a> | United States | Active | Auditor assisted extraction and verification of client data returned      | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE  | HEWLETT-PACKARD DEVELOPMENT COMPANY L.P.                             |
| 407 | <a href="#">US8291208B2</a> | United States | Active | BIOS bootable RAID support                                                | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                               | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                            |
| 408 | <a href="#">US8296253B2</a> | United States | Active | Managing online content based on its predicted popularity                 | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS       | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                            |
| 409 | <a href="#">US8306911B1</a> | United States | Active | Payment option analyzer based on measured utilization                     | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS       | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                            |
| 410 | <a href="#">US8307063B2</a> | United States | Active | Method and apparatus for managing data traffic associated with a user on  | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                 | 3COM CORPORATION                                                     |
| 411 | <a href="#">US8316066B1</a> | United States | Active | Shadow directory structure in a distributed segmented file system         | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS       | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                            |
| 412 | <a href="#">US8316377B2</a> | United States | Active | Sharing legacy devices in a multi-host environment                        | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                               | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                            |
| 413 | <a href="#">US8327026B1</a> | United States | Active | Method and system for selecting a data compression technique for data     | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                 | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                            |
| 414 | <a href="#">US8327389B2</a> | United States | Active | Interface module                                                          | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE  | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                            |
| 415 | <a href="#">US8327721B2</a> | United States | Active | Sensor fabric for shape perception                                        | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS       | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                            |
| 416 | <a href="#">US8332930B2</a> | United States | Active | Secure use of user secrets on a computing platform                        | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                               | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                            |
| 417 | <a href="#">US8346740B2</a> | United States | Active | File cache management system                                              | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS       | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                            |
| 418 | <a href="#">US8346938B1</a> | United States | Active | Efficient establishment of wireless connections                           | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                 | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                            |
| 419 | <a href="#">US8347070B1</a> | United States | Active | System and methods for sharing platform data with an ACPI module of       | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS       | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                            |
| 420 | <a href="#">US8347726B2</a> | United States | Active | Free-standing nanowire sensor and methods for forming and using the       | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE  | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                            |
| 421 | <a href="#">US8351204B2</a> | United States | Active | Modular data processing components and systems                            | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                 | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                            |
| 422 | <a href="#">US8351546B2</a> | United States | Active | Sensing device orientation in wireless networks                           | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                 | ARUBA NETWORKS, INC.                                                 |
| 423 | <a href="#">US8352957B2</a> | United States | Active | Apparatus and method for passing metadata in streams modules              | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS       | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                            |
| 424 | <a href="#">US8353489B2</a> | United States | Active | Mounting kit                                                              | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE  | PHELAN, ANDREW JAMES   SMITH, KELLY K.                               |
| 425 | <a href="#">US8353718B2</a> | United States | Active | Handle assembly for electrical connection with a grounding                | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                 | HENSLEY, JAMES D.   COWLES, DAVID R.   MALLERY, DAVID L.             |
| 426 | <a href="#">US8355251B2</a> | United States | Active | Remote exhaust for rack systems                                           | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                 | SIM, SOON PENG JASON   WONG, FOO LUEH   KOON, SIEW MEI               |
| 427 | <a href="#">US8355828B2</a> | United States | Active | Determining optimal settings for resource actors                          | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE  | TOLIA, NIRAJ   WANG, ZHIKUI   MARWAH, MANISH   BASH, CULLEN          |
| 428 | <a href="#">US8356141B2</a> | United States | Active | Identifying replacement memory pages from three page record lists         | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS       | MADISETTI, PRASHANTH   TRUONG, DAN   YALLAPRAGADA, BALAJI            |
| 429 | <a href="#">US8356198B2</a> | United States | Active | Performing power management based on information regarding                | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS       | MYRAH, MICHAEL G.   NATRAJAN, BALAJI                                 |
| 430 | <a href="#">US8357926B2</a> | United States | Active | Gain-clamped semiconductor optical amplifiers                             | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                 | WANG, SHIH-YUAN   ISLAM, M. SAIF   KUEKES, PHILIP J.   KOBAYASHI,    |
| 431 | <a href="#">US8357980B2</a> | United States | Active | Plasmonic high-speed devices for enhancing the performance of             | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                 | WILLIAMS, R. STANLEY   FATTAL, DAVID                                 |
| 432 | <a href="#">US8358591B2</a> | United States | Active | Network traffic monitoring in a server network environment                | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                               | CHUANG, MIKE   MCGEE, MICHAEL SEAN                                   |
| 433 | <a href="#">US8359467B2</a> | United States | Active | Access control system and method                                          | HEWLETT PACKARD ENTERPRISE DEV LP   HEWLETT PACKARD CO      | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   H EWLETT-     | SUBRAMANIAN, MURALI   SINGH, ANIMESH   NALUMASU, RATAN               |
| 434 | <a href="#">US8363654B2</a> | United States | Active | Predictive packet forwarding for a network switch                         | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                 | CONGDON, PAUL T.                                                     |
| 435 | <a href="#">US8364829B2</a> | United States | Active | System and method for ascribing resource consumption to activity in a     | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS       | MOGUL, JEFFREY C.   WIENER, JANET L.   AGUILERA, MARCOS K.   FARKAS, |
| 436 | <a href="#">US8364909B2</a> | United States | Active | Determining a conflict in accessing shared resources using a reduced      | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS       | CHAKRABARTI, DHIRVA                                                  |
| 437 | <a href="#">US8368118B2</a> | United States | Active | Semiconductor structure having an ELOG on a thermally and electrically    | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                 | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                            |
| 438 | <a href="#">US8369212B2</a> | United States | Active | Network path validation based on user-specified criteria                  | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                 | HOWARD, GREGORY T.   MCGEE, MICHAEL SEAN   ALLEN, JEFFREY D.         |
| 439 | <a href="#">US8370416B2</a> | United States | Active | Compatibility enforcement in clustered computing systems                  | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD DEVELOPMENT       | VALTRUS INNOVATIONS LIMITED   HEWLETT-PACKARD DEVELOPMENT | HOOVER, DAVID J.   REED, III, BERNARD A.   KRUEGER, MARJORIE         |
| 440 | <a href="#">US8370571B2</a> | United States | Active | Transfer control of a storage volume between storage controllers in a     | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                 | MAZINA, DANIEL J.                                                    |
| 441 | <a href="#">US8370574B2</a> | United States | Active | System and method for storing configuration data of a storage             | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                 | BALLARD, CURTIS   HOWE, COLETTE   FEATHER, STANLEY                   |
| 442 | <a href="#">US8370610B2</a> | United States | Active | Remote configuration of computing platforms                               | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                 | PROUDLER, GRAEME JOHN                                                |
| 443 | <a href="#">US8370688B2</a> | United States | Active | Identifying a storage device as faulty for a first storage volume without | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                 | MAZINA, DANIEL J.   ALLISON, JR., JAY E.                             |
| 444 | <a href="#">US8370834B2</a> | United States | Active | Routing across a virtual network                                          | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                               | EDWARDS, ALED   FISCHER, ANNA   DALTON, CHRIS   GOLDSACK,            |
| 445 | <a href="#">US8373061B2</a> | United States | Active | Photovoltaic cells with stacked light-absorption layers and methods of    | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                 | WANG, SHIH-YUAN   MATHAI, SAGI   TAN, MICHAEL                        |
| 446 | <a href="#">US8373584B2</a> | United States | Active | Compressing and decompressing data                                        | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS       | TREZISE, GREGORY   BUCKINGHAM, JONATHAN PETER   HANA, ANDREW         |
| 447 | <a href="#">US8374175B2</a> | United States | Active | System and method for remote direct memory access over a network          | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE  | HEWLETT-PACKARD                                                      |
| 448 | <a href="#">US8374622B2</a> | United States | Active | Call admission control for Wi-Fi                                          | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS       | COLUBRIS NETWORKS, INC.                                              |
| 449 | <a href="#">US8375114B2</a> | United States | Active | Device loading in storage networks                                        | YOUNGTEK ELECTRONICS   HEWLETT PACKARD ENTERPRISE DEV LP    | YOUNGTEK ELECTRONICS CORPORATION   HEWLETT PACKARD        | GROVER, RAJIV K.   AMALKANTI, BANU                                   |
| 450 | <a href="#">US8386494B2</a> | United States | Active | Providing data structures for determining whether keys of an index        | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE  | VACHUSKA, THOMAS                                                     |
| 451 | <a href="#">US8386654B2</a> | United States | Active | System and method for transforming PCIe SR-IOV functions to appear as     | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE  | BRINKMANN, HUBERT E.   CAGLE, JOHN M.   BASILE, BARRY S.             |
| 452 | <a href="#">US8387053B2</a> | United States | Active | Method and system for enhancing computer processing performance           | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                 | GATHER, BLAINE D.   KNAPP, VERNIA   HUCK, JEROME   OSECKY,           |
| 453 | <a href="#">US8390086B2</a> | United States | Active | Solar cell employing a nanowire                                           | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE  | WANG, SHIH-YUAN   KOBAYASHI, NOBUHIKO                                |
| 454 | <a href="#">US8390959B2</a> | United States | Active | Actuator with non-moving mass                                             | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE  | FASEN, DONALD J.   ANDERSON, JAMES C.                                |
| 455 | <a href="#">US8391717B2</a> | United States | Active | Flow-control methods and systems for multibus systems                     | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE  | MCCLAREN, MORAY   BINKERT, NATHAN LORENZO   DAVIS, ALAN              |

|     |                             |               |        |                                                                           |                                                             |                                                          |                                                                  |
|-----|-----------------------------|---------------|--------|---------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------|
| 456 | <a href="#">US8392586B2</a> | United States | Active | Method and apparatus to manage transactions at a network storage          | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | COLLINS, KEVIN   POPPEN-CHAMBERS, RONALD E.                      |
| 457 | <a href="#">US8392668B2</a> | United States | Active | Distributed-state-information-based distributed computing systems and     | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | REUTER, JAMES M.                                                 |
| 458 | <a href="#">US8392736B2</a> | United States | Active | Managing memory power usage                                               | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | VADEN, THOMAS L.                                                 |
| 459 | <a href="#">US8392928B1</a> | United States | Active | Automated workload placement recommendations for a data center            | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | FORYS, JEFFREY E.   SRINIVASAN, LATHA   ROLIA, JEROME            |
| 460 | <a href="#">US8395896B2</a> | United States | Active | Redundant cooling systems and methods                                     | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | BELADY, CHRISTIAN L.                                             |
| 461 | <a href="#">US8397302B2</a> | United States | Active | System and method for analyzing a process                                 | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | MONT, MARCO CASASSA   BERESNEVICHNE, YOLANTA   SHIU,             |
| 462 | <a href="#">US8416766B2</a> | United States | Active | Method for implementing distributed voice functions into software         | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | BROWN, ANDREW   GREEN, ALAN M.                                   |
| 463 | <a href="#">US8417954B1</a> | United States | Active | Installation image including digital signature                            | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | SAGAL, ABULLAH METIN   PASCUAL, JR., LUIS ASTUDILLO              |
| 464 | <a href="#">US8423803B2</a> | United States | Active | Method and system for forcing one or more power states on a display       | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                        |
| 465 | <a href="#">US8431474B2</a> | United States | Active | Three dimensional multilayer circuit                                      | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | KELLY, MICHAEL R.   KENYON, BRADLEY T.   GULLETT, MARK A.        |
| 466 | <a href="#">US8442058B2</a> | United States | Active | Locating stations between protocols                                       | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | MORRIS, DALE   MCCORMICK, JAMES E.                               |
| 467 | <a href="#">US8443171B2</a> | United States | Active | Run-time updating of prediction hint instructions                         | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | GRAUPNER, SVEN   SINGHAL, SHARAD   BASU, SUJOY   NEZHAD,         |
| 468 | <a href="#">US8452717B2</a> | United States | Active | Presenting an interactive guidance structure in a collaborative           | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | MORRIS, DALE                                                     |
| 469 | <a href="#">US8452945B2</a> | United States | Active | Indirect indexing instructions                                            | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | WALKER, ANTHONY PAUL MICHAEL   HILL, SHANNON BEALL   TRUJILLO,   |
| 470 | <a href="#">US8463940B2</a> | United States | Active | Method of indicating a path in a computer network                         | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                        |
| 471 | <a href="#">US8504018B2</a> | United States | Active | Service routing for communication systems                                 | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | LAFRANCE LINDEN, DAVID C. P.   RIFKIN, HOWARD S.                 |
| 472 | <a href="#">US8504943B2</a> | United States | Active | Displaying group icons representing respective groups of nodes            | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | BLANDING, WILLIAM H.   IVENEY, ROBERT A.   TURICCHI, JR., THOMAS |
| 473 | <a href="#">US8505019B1</a> | United States | Active | System and method for instant capacity/workload management                | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | SAURABH, PRASOON   TRIPATHI, ANOOP   VASHISHT, VIKAS             |
| 474 | <a href="#">US8515388B2</a> | United States | Active | Performing operations on IP telephony device from a remote                | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | GONG, YU                                                         |
| 475 | <a href="#">US8515916B2</a> | United States | Active | Data archiving methods and data archiving apparatus                       | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | BRUSKY, KEVIN J.   SCHUNICHT, GEOFFERY A.                        |
| 476 | <a href="#">US8516099B1</a> | United States | Active | Scaling management tasks performed by a management system according       | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | SAUER, JONATHAN M.   BADDELA, SESIDHAR   EURLIN, JEAN-MARC P.    |
| 477 | <a href="#">US8516218B2</a> | United States | Active | Pattern-based mapping for storage space management                        | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | BRUEGGEN, CHRIS M.                                               |
| 478 | <a href="#">US8521940B2</a> | United States | Active | Paired node controllers                                                   | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | CHEN, WEI WEN   ZWETKOF, PETER C.                                |
| 479 | <a href="#">US8526325B2</a> | United States | Active | Detecting and identifying connectivity in a network                       | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | RHINE, SCOTT                                                     |
| 480 | <a href="#">US8527988B1</a> | United States | Active | Proximity mapping of virtual-machine threads to processors                | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | MENDONCA, JOHN   RAIKAR, AMIT   STEPHENSON, BRYAN                |
| 481 | <a href="#">US8533828B2</a> | United States | Active | System for protecting security of a provisionable network                 | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | GEORGE, MUTHIAN   WANG, SONG   EZZAT, AHMED K.                   |
| 482 | <a href="#">US8538954B2</a> | United States | Active | Aggregate function partitions for distributed processing                  | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | PAROLINI, LUCA   TOLIA, NIRAJ   SINOPOLI, BRUNO   KROGH, BRUCE   |
| 483 | <a href="#">US8539059B2</a> | United States | Active | Managing cooling devices and computing nodes in an infrastructure         | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | ZEGLER, MICHAEL L.                                               |
| 484 | <a href="#">US8539113B2</a> | United States | Active | Indicators for streams associated with messages                           | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | ROLIA, JEROME   GMACH, DANIEL   CHERKASOVA, LUDMILA              |
| 485 | <a href="#">US8543711B2</a> | United States | Active | System and method for evaluating a pattern of resource demands of a       | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                        |
| 486 | <a href="#">US8553573B2</a> | United States | Active | Apparatus and method for adaptive throttling of traffic across multiple   | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | BHATTI, NINA   WEE, SUSIE                                        |
| 487 | <a href="#">US8560629B1</a> | United States | Active | Method of delivering content in a network                                 | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                        |
| 488 | <a href="#">US8561050B2</a> | United States | Active | Method and system for updating an application                             | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                        |
| 489 | <a href="#">US8566467B2</a> | United States | Active | Data processing system and method                                         | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                        |
| 490 | <a href="#">US8569900B2</a> | United States | Active | Nanowire sensor with angled segments that are differently                 | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | QUITORIANO, NATHANIEL J.   KAMINS, THEODORE I.   CHO, HANS       |
| 491 | <a href="#">US8578023B2</a> | United States | Active | Computer resource utilization modeling for multiple workloads             | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | SATTERFIELD, WADE J.   STABNOW, MICHAEL R.   SPENCER, TODD M.    |
| 492 | <a href="#">US8584138B2</a> | United States | Active | Direct switching of software threads by selectively bypassing run queue   | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | SANGILI, VASUDEVAN   SHARPE, EDWARD J.   PAREKH, HARSHADRAI      |
| 493 | <a href="#">US8589156B2</a> | United States | Active | Allocation of speech recognition tasks and combination of results         | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | BURKE, PAUL M.   YACCOUB, SHERIF                                 |
| 494 | <a href="#">US8595612B1</a> | United States | Active | Display of web page with available data                                   | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | CIRCENIS, EDGAR   JACQUOT, BRYAN J.   KINGDOM, MIKE              |
| 495 | <a href="#">US8606894B1</a> | United States | Active | Server consolidation                                                      | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | FREMONT, MARIE-JO L.   ZHANG, ALEX X.   SAFAI, FREYEDDOON        |
| 496 | <a href="#">US8607245B2</a> | United States | Active | Dynamic processor-set management                                          | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | SAKAGUCHI, RYOHEI LEO   HERINGTON, DANIEL EDWARD                 |
| 497 | <a href="#">US8611758B2</a> | United States | Active | Arrays, system and method for bi-directional data transmission            | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | KUO, HUEI PEI   WALMSLEY, ROBERT G.   WANG, SHIH-YUAN            |
| 498 | <a href="#">US8612973B2</a> | United States | Active | Method and system for handling interrupts within computer system          | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                        |
| 499 | <a href="#">US8615641B2</a> | United States | Active | System and method for differential backup                                 | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | SAMPATHKUMAR, KISHORE KANIYAR                                    |
| 500 | <a href="#">US8620859B2</a> | United States | Active | Data processing system and method of evaluating effectiveness of usage    | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | PENUMATSA, VAMSI                                                 |
| 501 | <a href="#">US8621304B2</a> | United States | Active | Built-in self-test system and method for an integrated circuit            | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HARTNETT, FRED   MCFARLAND, ROBERT                               |
| 502 | <a href="#">US8621470B2</a> | United States | Active | Co-locating threads on a processor based on wakeup-attributes of the      | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                        |
| 503 | <a href="#">US8621480B2</a> | United States | Active | Load balancer with starvation avoidance                                   | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | GOOTHERTS, PAUL DAVID                                            |
| 504 | <a href="#">US8627213B1</a> | United States | Active | Chat room system to provide binaural sound at a user location             | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | JOUPPI, NORMAN PAUL   IYER, SUBRAMANIAM S.                       |
| 505 | <a href="#">US8627313B2</a> | United States | Active | Virtual machine liveness determination                                    | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | EDWARDS, ALED   FISCHER, ANNA   GOLDSACK, PATRICK                |
| 506 | <a href="#">US8634321B2</a> | United States | Active | Proxy agents in a network                                                 | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                        |
| 507 | <a href="#">US8639904B2</a> | United States | Active | Method and system for managing heap across process replication            | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | NARASIMHAN, PARTHA   AGARWAL, WADHANAN, ANUPAM                   |
| 508 | <a href="#">US8649383B1</a> | United States | Active | Overlying virtual broadcast domains on an underlying physical network     | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HERINGTON, DANIEL EDWARD   BLANDING, WILLIAM H.                  |
| 509 | <a href="#">US8650296B1</a> | United States | Active | Workload reallocation involving inter-server transfer of software license | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                        |
| 510 | <a href="#">US8650396B2</a> | United States | Active | Permission-based dynamically tunable operating system kernel              | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HERINGTON, DANIEL EDWARD   OGDEN, DEBORAH JANE                   |
| 511 | <a href="#">US8650579B1</a> | United States | Active | Containment for computer-software update installation processes           | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | FATTAL, DAVID A.   LI, JINGJING                                  |
| 512 | <a href="#">US8655124B2</a> | United States | Active | Dielectric waveguide intersection with reduced losses                     | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                |                                                                  |

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| 513 | <a href="#">US8661279B2</a> | United States | Active | Power capping using C-states                                              | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | GOODRUM, ALAN L.   FASSE, SCOTT PATRICK   CEPULIS, DARREN JOHN                                                         |
| 514 | <a href="#">US8661283B2</a> | United States | Active | Power distribution unit-device correlation                                | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | TURICCHI, JR., THOMAS E.   MCCARTHY, CLIFFORD A.                                                                       |
| 515 | <a href="#">US8664605B2</a> | United States | Active | Covert label structure                                                    | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | BRATKOVSKI, ALEXANDRE M.   THYLEN, LARS HELGE                                                                          |
| 516 | <a href="#">US8664940B2</a> | United States | Active | Graphite-based sensor                                                     | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | BRATKOVSKI, ALEXANDRE M.   KOPELEVICH, IAKOV                                                                           |
| 517 | <a href="#">US8676931B1</a> | United States | Active | Methods for managing manual changes to network infrastructures            | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | JOHNSON, ERIC WENDELL   GUMMADI, AJAY K.   VON BARGEN, WYLLIE, JOHN J.   GREENAN, KEVIN M.                             |
| 518 | <a href="#">US8677208B2</a> | United States | Active | Generating a parallel recovery plan for a data storage system             | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE |                                                                                                                        |
| 519 | <a href="#">US8677365B2</a> | United States | Active | Performing zone-based workload scheduling according to                    | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                                                                              |
| 520 | <a href="#">US8677375B2</a> | United States | Active | Selecting executing requests to preempt                                   | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | UYISAL, MUSTAFA   MERCHANT, ARIF A.   TRASTOUR, DAVID                                                                  |
| 521 | <a href="#">US8688838B2</a> | United States | Active | Profile management systems                                                | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | DARLING, JIM   MCMENOMEY, JEFFREY   CRIPE, DANIEL N.                                                                   |
| 522 | <a href="#">US8688908B2</a> | United States | Active | Bit ordering for communicating an address on a serial fabric              | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | GATHER, BLAINE D.   KNAPP, VERNIA                                                                                      |
| 523 | <a href="#">US8692683B2</a> | United States | Active | Illuminable indicator of electronic device being enabled based at least   | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | DOVE, DANIEL J.                                                                                                        |
| 524 | <a href="#">US8694423B2</a> | United States | Active | Systems and methods for brokering data in a transactional gateway         | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | WAJHI, ABU REZA M.   ANDREWS, GREGORY A.   MAO, JIAXI                                                                  |
| 525 | <a href="#">US8694819B2</a> | United States | Active | System and method for gradually adjusting a virtual internal timer        | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | DE DINECHIN, CHRISTOPHE   NOEL, KAREN LEE   ROSS, JONATHAN                                                             |
| 526 | <a href="#">US8694974B2</a> | United States | Active | Load-checking atomic section                                              | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | KRISHNASWAMY, ARVIND                                                                                                   |
| 527 | <a href="#">US8694991B2</a> | United States | Active | Server virtualized using virtualization platform                          | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | BONOLA, THOMAS J.   GARRETT, MICHAEL R.   HEMPHILL, JOHN M.                                                            |
| 528 | <a href="#">US8710483B2</a> | United States | Active | Memristive junction with intrinsic rectifier                              | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | YANG, JIANHUA   STRACHAN, JOHN PAUL   PICKETT, MATTHEW D.                                                              |
| 529 | <a href="#">US8711693B2</a> | United States | Active | Gateway channel utilization                                               | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | DEEPAK, LADHA                                                                                                          |
| 530 | <a href="#">US8712035B2</a> | United States | Active | Online data conversion technique using a sliding window                   | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | MITTAL, HEMANT   SYAMA, SUNDARARAO N.   MUSA, MEHMET ROZZI, JAMES A.                                                   |
| 531 | <a href="#">US8712597B2</a> | United States | Active | Method of optimizing air mover performance characteristics to             | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE |                                                                                                                        |
| 532 | <a href="#">US8713139B1</a> | United States | Active | Automatic flap of network configuration on system image move              | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | KASPER, CHARLES C.   HARRISON, BRIAN   AVERY, KENNETH C.                                                               |
| 533 | <a href="#">US8713183B2</a> | United States | Active | Resource compatability for data centers                                   | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | MOHAMMED, SAKHAVULLAH   NARSIMHA, REDDY CHALLA                                                                         |
| 534 | <a href="#">US8713278B2</a> | United States | Active | System and method for stranded file opens during disk compression utility | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | PALANIAPPAN, MURALI   SARALADEVI, RENJITH UNNI                                                                         |
| 535 | <a href="#">US8713550B2</a> | United States | Active | Methods, devices and software applications for facilitating a             | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                                                                              |
| 536 | <a href="#">US8719478B2</a> | United States | Active | Deadlock prevention                                                       | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HAMEED, SOHAIL   NATRAJAN, BALAJI   QIN, LIJUN                                                                         |
| 537 | <a href="#">US8719830B2</a> | United States | Active | System and method for allowing executing application in                   | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | SUBRAMANIAN, MURALI   NALUMASU, RATAN PRASAD                                                                           |
| 538 | <a href="#">US8725781B2</a> | United States | Active | Sentiment cube                                                            | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | DAYAL, UMESHWAR   CASTELLANOS, MARIA G.   GUPTA, CHETAN KUMAR                                                          |
| 539 | <a href="#">US8725904B2</a> | United States | Active | Management processors, methods and articles of manufacture                | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HILLAND, JEFFREY R.   BARRON, DWIGHT L.   TALWAR, VANISH                                                               |
| 540 | <a href="#">US8726261B2</a> | United States | Active | Zero downtime hard disk firmware update                                   | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | VAN NGUYEN, CUONG   HATCH, STANLEY   HOLMES, CHRISTOPHER                                                               |
| 541 | <a href="#">US8732307B1</a> | United States | Active | Predictive control for resource entitlement                               | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | ZHU, XIAOYUN   XU, WEI   SINGHAL, SHARAD   WANG, ZHIKUI                                                                |
| 542 | <a href="#">US8732308B1</a> | United States | Active | Coordinated management in virtualized systems using                       | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | TALWAR, VANISH   AUTOR, JEFF S.   KUMAR, SANJAY   RANGANATHAN, BOLDING, JOE D.   TORMEY, DANIEL G.   GILBERT, JR., RON |
| 543 | <a href="#">US8738346B2</a> | United States | Active | Method and apparatus for controlling multiple simulations                 | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | GARZA-GONZALEZ, DANIEL C.                                                                                              |
| 544 | <a href="#">US8738658B2</a> | United States | Active | Method for using paths in a directory for locating objects                | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | LAFFRANCE-LINDEN, DAVID                                                                                                |
| 545 | <a href="#">US8739143B2</a> | United States | Active | Profiling metrics for computer programs                                   | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | KIM, HYUN   NORTON, SCOTT J.                                                                                           |
| 546 | <a href="#">US8739162B2</a> | United States | Active | Accurate measurement of multithreaded processor core                      | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      |                                                                                                                        |
| 547 | <a href="#">US8739288B2</a> | United States | Active | Automatic detection of vulnerability exploits                             | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | DIAMANT, JOHN R.   HSU, WAN-YEN   LIN, DAVID HSING   SCOREDOS, INGRAM, PAUL STEWART   DAY, ROBERT LESLIE   GRANDY,     |
| 548 | <a href="#">US8762507B1</a> | United States | Active | Method and system for managing an information technology system           | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | LU, YOUNG   FOWLER, RONALD   MCGURRIN, ROBERT   JIN, JENNY Q.                                                          |
| 549 | <a href="#">US8767974B1</a> | United States | Active | System and method for generating comfort noise                            | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | PEARSON, CAROL JEAN   BIRDSALL, DAVID W.   MARTON, ROBERTA S.                                                          |
| 550 | <a href="#">US8768978B2</a> | United States | Active | Single-operation on-line schema evolution                                 | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | SASIDHARAN NAIR, RAKESH   GEORGE, SHERIN THYL                                                                          |
| 551 | <a href="#">US8769546B2</a> | United States | Active | Busy-wait time for threads                                                | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | LI, ZHIYONG   ROBINETT, WARREN                                                                                         |
| 552 | <a href="#">US8773882B2</a> | United States | Active | Mixed-scale electronic interfaces                                         | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | BINKERT, NATHAN L.   DAVIS, ALAN L.   MCLAREN, MORAY                                                                   |
| 553 | <a href="#">US8774625B2</a> | United States | Active | Method and systems for implementing high-radix switch                     | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | DULIGALL, JOANNA   SPILLER, TIMOTHY   IONICIU, RADU                                                                    |
| 554 | <a href="#">US8774638B2</a> | United States | Active | Photonic quantum system alignment using multiple beams                    | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | MENTZE, DUANE   GIOVANNI, HEATHER                                                                                      |
| 555 | <a href="#">US8780908B2</a> | United States | Active | Method and apparatus for tracing a multicast flow                         | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HUBERMAN, BERNARDO   CLEARWATER, SCOTT                                                                                 |
| 556 | <a href="#">US8781977B1</a> | United States | Active | System and method of pricing resources                                    | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | SHAW, CHRISTINA M.   TIPLEY, ROGER E.                                                                                  |
| 557 | <a href="#">US8782186B2</a> | United States | Active | Systems and methods for addressing managed elements                       | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | CEPULIS, DARREN J.   HUA, CHANH V.                                                                                     |
| 558 | <a href="#">US8782450B2</a> | United States | Active | Power capping system and method                                           | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              |                                                                                                                        |
| 559 | <a href="#">US8782655B2</a> | United States | Active | Controlling computing resource consumption                                | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | BLANDING, WILLIAM H.   GRECO, FRANKLIN                                                                                 |
| 560 | <a href="#">US8782779B2</a> | United States | Active | System and method for achieving protected region within computer          | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | GILES, CHRIS M.   HERRELL, RUSS W.   MORRISON, JOHN A.   WHEELER,                                                      |
| 561 | <a href="#">US8788747B2</a> | United States | Active | Independently controlled virtual memory devices in memory modules         | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | AHN, JUNG HO   JOUPPI, NORMAN P.   LEVERICH, JACOB B.                                                                  |
| 562 | <a href="#">US8789139B2</a> | United States | Active | Automated test to tell computers and humans apart                         | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | DEVELOPMENT COMPANY, L.P., HEWLETT-PACKARD                                                                             |
| 563 | <a href="#">US8792475B1</a> | United States | Active | Method and system for providing pass through web configuration on         | HEWLETT PACKARD CO                                          | HEWLETT-PACKARD COMPANY                                  | KOSTEVA, GLENN   MCGURRIN, ROBERT   MCCORMACK, MICHAEL                                                                 |
| 564 | <a href="#">US8793258B2</a> | United States | Active | Predicting sharing on a social network                                    | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | ASUR, SITARAM   HUBERMAN, BERNARDO   BANDARI, ROJA                                                                     |
| 565 | <a href="#">US8793264B2</a> | United States | Active | Determining a subset of documents from which a particular document        | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | DEOLALIKAR, VINAY                                                                                                      |
| 566 | <a href="#">US8798964B2</a> | United States | Active | Methods and apparatus for designing the racking and wiring configurations | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | ROSENTHAL, RICHARD EDWIN   SHAHOUMIAN, TROY ALEXANDER                                                                  |
| 567 | <a href="#">US8799466B2</a> | United States | Active | Method and apparatus for automatic verification of a network access       | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | GRAVES, DAVID ANDREW                                                                                                   |
| 568 | <a href="#">US8799501B2</a> | United States | Active | System and method for anonymously sharing and scoring information         | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | ADAR, EYTAN   LUKOSE, RAJAN MATHEW   SENGUPTA, CAESAR                                                                  |
| 569 | <a href="#">US8799545B2</a> | United States | Active | Restoring stability to an unstable bus                                    | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | ERICKSON, MIKE   MACIOROWSKI, DAVID                                                                                    |

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| 570 | <a href="#">US8799547B2</a> | United States | Active | Data packet processing method for a multi core processor                   | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                                                              |
| 571 | <a href="#">US8799591B2</a> | United States | Active | Read-write spinlock                                                        | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | LARSON, DOUGLAS V.   MCCONNELL, MARCIA E.                                                              |
| 572 | <a href="#">US8799706B2</a> | United States | Active | Method and system of exchanging information between processors             | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | BRUCKERT, WILLIAM F.   GARCIA, DAVID J.   HEYNEMANN, THOMAS A.                                         |
| 573 | <a href="#">US8806061B1</a> | United States | Active | System, method, and computer program product for automated                 | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | LOBO, SANJAY P.   COTTEN, JEFF B.   WACKER, JEFFREY L.                                                 |
| 574 | <a href="#">US8810780B1</a> | United States | Active | Plasmon resonance based strain gauge                                       | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                                                              |
| 575 | <a href="#">US8811210B2</a> | United States | Active | Effective application densities for fabrics                                | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | NARSIMHA, REDDY C.   SURESH, BEZAWADA   DASARI, RAJASHEKAR                                             |
| 576 | <a href="#">US8811778B2</a> | United States | Active | Systems and method for routing optical signals                             | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | BICKNELL, ROBERT NEWTON   YEO, JONG-SOUK   KORNILOVICH, PAVEL   PRADHAN, TANMAY KUMAR                  |
| 577 | <a href="#">US8812501B2</a> | United States | Active | Method or apparatus for selecting a cluster in a group of nodes            | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | ZHANG, LI   XIONG, YUHONG   WANG, WEI-CHUN                                                             |
| 578 | <a href="#">US8812508B2</a> | United States | Active | Systems and methods for extracting phases from text                        | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | MEHRA, PANKAJ                                                                                          |
| 579 | <a href="#">US8825902B2</a> | United States | Active | Configuration validation checker                                           | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | DENARDO, JOHN   KELLEY, KEITH L.   HUDSON, CHARLES L.                                                  |
| 580 | <a href="#">US8826138B1</a> | United States | Active | Virtual connect domain groups                                              | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                                                              |
| 581 | <a href="#">US8830619B1</a> | United States | Active | Overwrite threshold number of tracks                                       | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | WALTON, ANDREW CHRISTOPHER   JACQUOT, BRYAN J.                                                         |
| 582 | <a href="#">US8836717B2</a> | United States | Active | System, method and utility to format images retrieved from a device        | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | ZHONG, QUN                                                                                             |
| 583 | <a href="#">US8838765B2</a> | United States | Active | Modifying computer management request                                      | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | RIBEIRO, GILBERTO MEDEIROS   PICKETT, MATTHEW D.   WILLIAMS, HEWLETT PACKARD DEVELOPMENT COMPANY, L.P. |
| 584 | <a href="#">US8854860B2</a> | United States | Active | Metal-insulator transition latch                                           | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | GEORGE, MUTHIAN                                                                                        |
| 585 | <a href="#">US8855118B2</a> | United States | Active | Source discovery for non-flooding multicast using openflow                 | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HAO, MING C.   ROHRDANTZ, CHRISTIAN   DAYAL, UMESHWAR                                                  |
| 586 | <a href="#">US8856151B2</a> | United States | Active | Output field mapping of user defined functions in databases                | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | SMITH, ZACHARY STEVEN   MALY, JOHN WARREN                                                              |
| 587 | <a href="#">US8862577B2</a> | United States | Active | Visualizing sentiment results with visual indicators representing user     | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | ULLAS, VASTHARE VEERAPPAGOWDA   SWAMY, MANDAVILLI                                                      |
| 588 | <a href="#">US8862770B1</a> | United States | Active | Processor architecture verification                                        | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | MATHAI, SAGI VARGHESE   WANG, SHI-YUAN                                                                 |
| 589 | <a href="#">US8867406B2</a> | United States | Active | System and method for automated discovery of customer-edge devices         | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                                                              |
| 590 | <a href="#">US8873893B2</a> | United States | Active | Nano-wire optical block devices for amplifying, modulating, and            | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | BRATKOVSKI, ALEXANDRE M.   TSYBESKOV, LEONID                                                           |
| 591 | <a href="#">US8875142B2</a> | United States | Active | Job scheduling on a multiprocessing system based on reliability and        | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | KARP, ALAN H.   LI, JUN                                                                                |
| 592 | <a href="#">US8883616B2</a> | United States | Active | Germanium on insulator apparatus                                           | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | WIECZOREK, PHILIPPE   DESCOMBES, PIERRE-YVES   KELLY, MICHAEL R.                                       |
| 593 | <a href="#">US8904176B2</a> | United States | Active | Protecting the information encoded in a bloom filter using encoded bits of | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | SOLT, DAVID GEORGE                                                                                     |
| 594 | <a href="#">US8923837B2</a> | United States | Active | Provisioning a telephony network in response to an electronic device       | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | AHN, JUNG HO   JOUPLI, NORMAN P.   SCHREIBER, ROBERT S.                                                |
| 595 | <a href="#">US8924590B2</a> | United States | Active | System and method for communicating in a networked                         | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | VASAVI, SAGI   DASARI, RAJASHEKAR                                                                      |
| 596 | <a href="#">US8924639B2</a> | United States | Active | Independently controllable and reconfigurable virtual memory               | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                                                              |
| 597 | <a href="#">US8924667B2</a> | United States | Active | Backup storage management                                                  | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | BANERJEE, SWAPNESH   SAMIK, BHATTACHARYA                                                               |
| 598 | <a href="#">US8929225B2</a> | United States | Active | Customer edge device problem identification                                | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | FATTAL, DAVID A.   BICKNELL, ROBERT N.   SANTORI, CHARLES                                              |
| 599 | <a href="#">US8929236B2</a> | United States | Active | Network flow analysis                                                      | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | ELECTRONIC DATA SYSTEMS CORPORATION                                                                    |
| 600 | <a href="#">US8929741B2</a> | United States | Active | Optical interconnect                                                       | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | ADAMIC, LADA   HUBERMAN, BERNARDO                                                                      |
| 601 | <a href="#">US8930010B2</a> | United States | Active | Intelligent assembly system and method of use                              | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | MCKERRELL, GRAEME   SAUNDERSON, PETER                                                                  |
| 602 | <a href="#">US8930400B2</a> | United States | Active | System and method for discovering knowledge communities                    | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | BARTLETT, WENDY B.   IMMANUEL, VIJAYKUMAR   DAMIAN, MIHAI                                              |
| 603 | <a href="#">US8943241B1</a> | United States | Active | Communication device ingress information management system and             | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | MATHAI, SAGI VARGHESE   ROSENBERG, PAUL KESSLER   TAN,                                                 |
| 604 | <a href="#">US8943328B2</a> | United States | Active | Key rotation for encrypted storage media                                   | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | LU, YUE   CASTELLANOS, MARIA G   DAYAL, UMESHWAR                                                       |
| 605 | <a href="#">US8947796B2</a> | United States | Active | Telecentric optical assembly                                               | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | LUCIANI, JR., LUIS E.   DYKES, DON A.                                                                  |
| 606 | <a href="#">US8949211B2</a> | United States | Active | Objective-function based sentiment                                         | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | LI, JINGJING   QUITORIANO, NATE   FATTAL, DAVID A.   BEAUSOLEIL,                                       |
| 607 | <a href="#">US8949404B2</a> | United States | Active | Acquiring graphical operating system post-failure screen                   | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                                                              |
| 608 | <a href="#">US8952403B2</a> | United States | Active | Optical devices based on non-periodic sub-wavelength gratings              | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | MYRAH, MICHAEL G.   JENKINS, AARON L.   SPENCER, BRIAN M.                                              |
| 609 | <a href="#">US8956584B2</a> | United States | Active | Prioritized replication paths                                              | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | FAASSE, SCOTT P.                                                                                       |
| 610 | <a href="#">US8966210B2</a> | United States | Active | Zone group connectivity indicator                                          | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | TRUONG, HUONG M.   WHITEMAN, JASON W.   PATEL, PRILL J.                                                |
| 611 | <a href="#">US8966296B2</a> | United States | Active | Transitioning a performance state of a processor                           | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HERINGTON, DAN                                                                                         |
| 612 | <a href="#">US8966313B2</a> | United States | Active | Systems and methods for a shared debug pin                                 | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | LIN, DAVID HSING                                                                                       |
| 613 | <a href="#">US8966474B2</a> | United States | Active | Managing virtual machines using shared image                               | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | GONG, YU                                                                                               |
| 614 | <a href="#">US8977651B2</a> | United States | Active | Method and apparatus for multi-process access to a linked-list             | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | POPESCU, VALENTIN   ANDERSON, PAUL MICHAEL                                                             |
| 615 | <a href="#">US8990165B2</a> | United States | Active | Methods, apparatus and articles of manufacture to archive data             | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | CALLISTER, JAMES R.   HANK, RICHARD E.   JOHNSON, TERESA L.                                            |
| 616 | <a href="#">US8990405B2</a> | United States | Active | Methods, systems and articles of manufacture to resume a remote            | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | MARNDI, RAJ NARAYAN   GULLAPALLI, RAVI KUMAR   HASSAN,                                                 |
| 617 | <a href="#">US8990547B2</a> | United States | Active | Systems and methods for re-ordering instructions                           | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | POH, WILLIAM   SEARLE, WALTER J.   AKRUDKWE, CHUKWUMA                                                  |
| 618 | <a href="#">US8997084B2</a> | United States | Active | Method and apparatus for determining compatible versions of                | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                                                              |
| 619 | <a href="#">US8997102B2</a> | United States | Active | Prioritization of processes for deactivating processes to reduce           | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | BADAQULI, NAJJAR, RAMEZ N.   DEFEW, KEVIN G.   SPOTTSWOOD,                                             |
| 620 | <a href="#">US9015308B2</a> | United States | Active | Multilayer distributed processing system                                   | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | ZHOU, YUNHONG   KOTHARI, ANSHUL   SWAMINATHAN, RAM                                                     |
| 621 | <a href="#">US9015454B2</a> | United States | Active | Binding data to computers using cryptographic co-processor and             | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | MITTAL, HEMANT   NADIMINTI, SYAMA SUNDARARAO   WANG, SUE                                               |
| 622 | <a href="#">US9021094B1</a> | United States | Active | Allocation of resources for tiers of a multi-tiered system based on        | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | FISCHER, MATTHEW L.   GINTHER, FRANCIS J.                                                              |
| 623 | <a href="#">US9031876B2</a> | United States | Active | Managing keys for encrypted shared documents                               | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | ISWANDHI, GEOFFREY IGNATIUS   DAMIAN, MIHAI   IMMANUEL,                                                |
| 624 | <a href="#">US9032127B2</a> | United States | Active | Method of balancing I/O device interrupt service loading in a              | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | REDDY SIRIGIRI, ANIL KUMAR   RAMAIAH, CHAITRA MARALIGA                                                 |
| 625 | <a href="#">US9032218B2</a> | United States | Active | Key rotation for encrypted storage media using a mirrored volume           | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      |                                                                                                        |
| 626 | <a href="#">US9032240B2</a> | United States | Active | Method and system for providing high availability SCTP applications        | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE |                                                                                                        |

|     |                             |               |        |                                                                           |                                                             |                                                          |                                                                       |
|-----|-----------------------------|---------------|--------|---------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------|
| 627 | <a href="#">US9032397B2</a> | United States | Active | Virtual machine migration with direct physical access control             | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | MILLER, TROY   CRISS, MARK A.   HARROW, JR., JERRY JAMES              |
| 628 | <a href="#">US9032517B2</a> | United States | Active | Malicious code detection                                                  | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | WARREN, DAVID A.                                                      |
| 629 | <a href="#">US9036618B1</a> | United States | Active | Method and system for providing voice assisted configuration on an        | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | KOSTEVA, GLENN   MCGURRIN, ROBERT   MCCORMACK, MICHAEL                |
| 630 | <a href="#">US9037538B2</a> | United States | Active | File system migration                                                     | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | SAMPATHKUMAR, KISHORE KANIYAR                                         |
| 631 | <a href="#">US9037843B2</a> | United States | Active | Managing a target computing device                                        | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | LYONS, PETER   SANDERS, BERNARD                                       |
| 632 | <a href="#">US9038051B1</a> | United States | Active | Selecting patch solutions based on availability of information regarding  | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | ZWEIFEL, EVAN R.   BUCK, KEITH R.   CAMPBELL, ROBERT E.               |
| 633 | <a href="#">US9043465B2</a> | United States | Active | Method of providing services in a network, network element and            | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY L.P.                              |
| 634 | <a href="#">US9043589B2</a> | United States | Active | System and method for safeguarding and processing confidential            | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | VAIL, ROBERT R.   BILLINGS, MARY JO   BOHRER, ROBERT D.   BROOKS, II, |
| 635 | <a href="#">US9049034B2</a> | United States | Active | Multicast flow monitoring                                                 | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | JAIN, MANOJ KUMAR   KUMAR, SANJAY   KUMAR, SUMIT   CHENTA,            |
| 636 | <a href="#">US9052475B2</a> | United States | Active | Fiber optics connectors                                                   | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | ROSENBERG, PAUL KESSLER   TAN, MICHAEL RENNE TY                       |
| 637 | <a href="#">US9052916B2</a> | United States | Active | System ROM with an embedded disk image                                    | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | CEPULIS, DARREN                                                       |
| 638 | <a href="#">US9053501B2</a> | United States | Active | Spontaneous sharing of media asset references                             | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | MORGAN, JEFFREY A                                                     |
| 639 | <a href="#">US9058295B2</a> | United States | Active | Encrypt data of storage device                                            | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                             |
| 640 | <a href="#">US9063767B2</a> | United States | Active | Configuration space with pseudo device identifier                         | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | DEVELOPMENT COMPANY, L.P., HEWLETT-PACKARD                            |
| 641 | <a href="#">US9064568B2</a> | United States | Active | Circuit and method for reading a resistive switching device in an array   | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | PERNER, FREDERICK                                                     |
| 642 | <a href="#">US9069470B2</a> | United States | Active | Zone group reassignment using storage device signatures                   | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | MYRAH, MICHAEL G   NATRAJAN, BALAJI   HAMEED, SOHAIL   QIN,           |
| 643 | <a href="#">US9071506B2</a> | United States | Active | Accessing web services using network management information               | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                             |
| 644 | <a href="#">US9081627B1</a> | United States | Active | Workload management with resource transfer sequence planned               | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | BLANDING, WILLIAM H.   HERINGTON, DANIEL EDWARD                       |
| 645 | <a href="#">US9094317B2</a> | United States | Active | Processor topology switches                                               | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | GOLDSTEIN, MARTIN   CASIM, KAMRAN H.   KOEHLER, LOREN M.              |
| 646 | <a href="#">US9098276B2</a> | United States | Active | Redundant power supply systems and methods                                | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HUMPHREY, DANIEL   DOMINGO, REYNALDO P.   BERNAT, MOHAMED             |
| 647 | <a href="#">US9104668B2</a> | United States | Active | Migrating artifacts between service-oriented architecture repositories    | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | NOVAK, MIROSLAV   VANA, JAN   REGNER, ALBERT                          |
| 648 | <a href="#">US9112768B1</a> | United States | Active | Discovering non managed devices in a network such as a LAN using HTTP     | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | BOULTER, BRENDAN   LINZELL, CHRISTOPHER ROBERT   VALENTINE,           |
| 649 | <a href="#">US9137179B2</a> | United States | Active | Memory-mapped buffers for network interface controllers                   | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | SCHLANSKER, MICHAEL STEVEN   OERTL, ERWIN                             |
| 650 | <a href="#">US9148430B2</a> | United States | Active | Method of managing usage rights in a share group of servers               | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | GANGARAJ MANOHARAN, SANTOSH KUMAR   SHIVANNA, SUHAS                   |
| 651 | <a href="#">US9158647B2</a> | United States | Active | Formatting system monitoring information                                  | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | DE JESUS, REY F.   CHARDON, LUIS G.   DIAZ, DANIEL                    |
| 652 | <a href="#">US9161105B2</a> | United States | Active | Routing optical signals                                                   | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | MORRIS, TERREL   TY TAN, MICHAEL RENNE   WANG, SHIH-YUAN              |
| 653 | <a href="#">US9164250B2</a> | United States | Active | Replaceable modular optical connection assembly                           | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | MOGUL, JEFFREY CLIFFORD   BARRON, DWIGHT L.   LEIGH, KEVIN            |
| 654 | <a href="#">US9166893B2</a> | United States | Active | Methods, apparatus and systems for monitoring locations of data within a  | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | BRANDT, MARC   PEARSON, SIANI   SINGHAL, SHARAD                       |
| 655 | <a href="#">US9170977B2</a> | United States | Active | Optical interconnect                                                      | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | SCHLANSKER, MICHAEL   TY TAN, MICHAEL RENNE   WANG, SHIH-             |
| 656 | <a href="#">US9171613B2</a> | United States | Active | Memristors with asymmetric electrodes                                     | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | BRATKOVSKI, ALEXANDRE M.   YANG, JIANHUA   WANG, SHIH-YUAN            |
| 657 | <a href="#">US9176279B2</a> | United States | Active | Analyzing light by mode interference                                      | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | SANTORI, CHARLES M.   FIORENTINO, MARCO   FATTAL, DAVID A.   PENG,    |
| 658 | <a href="#">US9178153B2</a> | United States | Active | Memristor structure with a dopant source                                  | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | ZHANG, MINXIAN MAX   YANG, JIANHUA   WILLIAMS, R. STANLEY             |
| 659 | <a href="#">US9178850B2</a> | United States | Active | Distributed network connection policy management                          | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | LAIN, ANTONIO   GOLDSACK, PATRICK                                     |
| 660 | <a href="#">US9179580B2</a> | United States | Active | Data center cooler with chiller and cooling tower                         | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                             |
| 661 | <a href="#">US9184382B2</a> | United States | Active | Memristive devices with layered junctions and methods for fabricating     | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | PICKETT, MATTHEW D.   YANG, JIANHUA   RIBEIRO, GILBERTO               |
| 662 | <a href="#">US9191989B2</a> | United States | Active | Apparatus, and associated method, for controlling connectivity of a       | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | ELECTRONIC DATA SYSTEMS CORPORATION                                   |
| 663 | <a href="#">US9195495B2</a> | United States | Active | Configuration space with pseudo device identifier                         | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                             |
| 664 | <a href="#">US9195727B2</a> | United States | Active | Delta partitions for backup and restore                                   | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                             |
| 665 | <a href="#">US9213609B2</a> | United States | Active | Persistent memory device for backup process checkpoint states             | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                             |
| 666 | <a href="#">US9213842B2</a> | United States | Active | Tracing data block operations                                             | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | SUEN, CHUN HUI   JAGADPRAMAN, PETER   KO, KOK LEONG RYAN              |
| 667 | <a href="#">US9218527B2</a> | United States | Active | Anomaly detection in streaming data                                       | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | LAKSHMINARAYAN, CHOUDUR   ALVARADO, ALEXANDER SINGH                   |
| 668 | <a href="#">US9223821B2</a> | United States | Active | Data backup prioritization                                                | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | DASARI, RAJASHEKAR   DHANALAKOTI, HARI   KOLLI,                       |
| 669 | <a href="#">US9224821B2</a> | United States | Active | Customizable nonlinear electrical devices                                 | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | ZHANG, MINXIAN MAX   YANG, JIANHUA   RIBEIRO, GILBERTO                |
| 670 | <a href="#">US9229648B2</a> | United States | Active | Storage array reservation forwarding                                      | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | MCDOWELL, JONATHAN ANDREW   NAZARI, SIAMAK                            |
| 671 | <a href="#">US9229859B2</a> | United States | Active | Mapping non-prefetchable storage locations into memory mapped             | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | COWAN, JOE P.   CASIM, KAMRAN H.                                      |
| 672 | <a href="#">US9229984B2</a> | United States | Active | Parameter expressions for modeling user defined function execution in     | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | GEORGE, MUTHIAN                                                       |
| 673 | <a href="#">US9235639B2</a> | United States | Active | Filter regular expression                                                 | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                             |
| 674 | <a href="#">US9240931B2</a> | United States | Active | Information technology service management                                 | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | SALLE, MATTHIAS   EIDT, ERIK L.                                       |
| 675 | <a href="#">US9246774B2</a> | United States | Active | Sample based determination of network policy violations                   | HEWLETT PACKARD ENTERPRISE DEV LP                           | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP                | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                             |
| 676 | <a href="#">US9253038B2</a> | United States | Active | End-to-end network access analysis                                        | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | BHATT, SANDEEP N   RAO, PRASAD V   OKITA, CAT                         |
| 677 | <a href="#">US9262799B2</a> | United States | Active | Shared memory eigensolver                                                 | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | SILICON GRAPHICS INTERNATIONAL CORP.                                  |
| 678 | <a href="#">US9270595B2</a> | United States | Active | Method and system for controlling a delay of packet processing using loop | VALTRUS INNOVATIONS LTD                                     | VALTRUS INNOVATIONS LIMITED                              | 3COM CORPORATION                                                      |
| 679 | <a href="#">US9275041B2</a> | United States | Active | Performing sentiment analysis on microblogging data, including            | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | GHOSH, RIDDHIMAN   ZHANG, LEI   DEKHIL, MOHAMED E.                    |
| 680 | <a href="#">US9275542B2</a> | United States | Active | Location-indexed audio content                                            | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | ANKOLEKAR, ANUPRIYA   HUBERMAN, BERNARDO                              |
| 681 | <a href="#">US9292392B2</a> | United States | Active | Memory module that includes a memory module copy engine for               | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV    | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE | WARNES, LIDIA                                                         |
| 682 | <a href="#">US9293200B2</a> | United States | Active | Multilayer memory array                                                   | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | NICKEL, JANICE H.   RIBEIRO, GILBERTO MEDEIROS   YANG,                |
| 683 | <a href="#">US9298668B2</a> | United States | Active | Bit error rate reduction buffer, method and apparatus                     | HEWLETT PACKARD ENTERPRISE DEV LP   VALTRUS INNOVATIONS LTD | HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP   VALTRUS      | THAYER, LARRY J.                                                      |

|     |                             |               |        |                                                                            |                                                             |                                                                         |                                                                                                                                  |
|-----|-----------------------------|---------------|--------|----------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 684 | <a href="#">US931085582</a> | United States | Active | Flexible data center and methods for deployment                            | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | GROSS, PETER   WILSON, SCOTT A.   ZUPPAN, JAMES   KURKIAN, JOHNSON, ERIC EARL   LEE, JEFFERSON NATHAN   VIRGO, TAVALLAEI, SIAMAK |
| 685 | <a href="#">US931131982</a> | United States | Active | Method and system for administration of storage objects                    | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                                                                                        |
| 686 | <a href="#">US931199882</a> | United States | Active | Apparatus to store data and methods to read memory cells                   | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | RIBEIRO, GILBERTO M.   PICKETT, MATTHEW D.                                                                                       |
| 687 | <a href="#">US932996582</a> | United States | Active | Extracting log files from storage devices                                  | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | MYRAH, MICHAEL G.   NATRAJAN, BALAJI                                                                                             |
| 688 | <a href="#">US933170082</a> | United States | Active | Metal-insulator phase transition flip-flop                                 | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | BEAUSOLEIL, RAYMOND G.   ROSENBERG, PAUL KESSLER                                                                                 |
| 689 | <a href="#">US933603282</a> | United States | Active | Zoning data to a virtual machine                                           | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | CONTEXTREAM LTD.,                                                                                                                |
| 690 | <a href="#">US934178082</a> | United States | Active | Optical connections                                                        | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | ARUBA NETWORKS, INC.                                                                                                             |
| 691 | <a href="#">US934436982</a> | United States | Active | System and methods for distributed quality of service enforcement          | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | CEPULIS, DARREN J.   HASHMANY, YASIR Q.   HUA, CHANH V.                                                                          |
| 692 | <a href="#">US934485882</a> | United States | Active | Overlaying virtual broadcast domains on an underlying physical network     | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | GEORGE, MUTHIAN                                                                                                                  |
| 693 | <a href="#">US935467882</a> | United States | Active | Enclosure airflow controller                                               | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | KRELL, SHERRY   BALLESTEROS, REBECCA M.   COWHAM, ADRIAN                                                                         |
| 694 | <a href="#">US935514582</a> | United States | Active | User defined function classification in analytical data processing systems | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | CIRCENIS, EDGAR   KOPREN, TORAN K.   KINGDOM, MICHAEL                                                                            |
| 695 | <a href="#">US935693282</a> | United States | Active | Dynamically applying a control policy to a network                         | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | FREY, MICHAEL G.   CAVANNA, VINCENT E.   SWITKOWSKI, TREVOR                                                                      |
| 696 | <a href="#">US936719781</a> | United States | Active | Displaying computer resource hierarchy                                     | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                                                                                        |
| 697 | <a href="#">US936929682</a> | United States | Active | Fabric chip having trunked links                                           | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | PERNER, FREDERICK                                                                                                                |
| 698 | <a href="#">US937252282</a> | United States | Active | Overvoltage protection systems and method                                  | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | WANG, HSUI HSIEH                                                                                                                 |
| 699 | <a href="#">US938482482</a> | United States | Active | List sort static random access memory                                      | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | MUPPILALA, KISHORE KUMAR   NELLAY, NARAYANAN                                                                                     |
| 700 | <a href="#">US938964982</a> | United States | Active | Locking mechanism with movable and fixed members each having               | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | KELLY, TERENCE P.   DAVID, ALAN L.   PICKETT, MATTHEW D.                                                                         |
| 701 | <a href="#">US938992182</a> | United States | Active | System and method for flexible device driver resource allocation           | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | TALWAR, VANISH   AUTOR, JEFFREY S.   KUMAR, SANJAY                                                                               |
| 702 | <a href="#">US939077382</a> | United States | Active | Shiftable memory                                                           | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | HUMPHREY, DANIEL   BEMAT, MOHAMED AMIN   MOHR, DAVID                                                                             |
| 703 | <a href="#">US939578682</a> | United States | Active | Cross-layer power management in a multi-layer system                       | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | ORDENTLICH, ERIC   SEROUSSI, GADIEL                                                                                              |
| 704 | <a href="#">US940163582</a> | United States | Active | Switching power supply for a load in standby mode                          | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | CHOUDUR, LAKSHMINARAYAN   SINGH, PRAMOD   DAYAL, SCHREIBER, ROBERT SAMUEL                                                        |
| 705 | <a href="#">US940561482</a> | United States | Active | Method and system for reducing write-buffer capacities within              | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | TARIAN, ROBERT E.   SHAH, MEHUL                                                                                                  |
| 706 | <a href="#">US940573182</a> | United States | Active | Energy-based wavelet thresholding                                          | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                                                                                        |
| 707 | <a href="#">US940592181</a> | United States | Active | Computer-implemented method for role discovery in access control           | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                                                                                        |
| 708 | <a href="#">US940592282</a> | United States | Active | Computer-implemented method for role discovery and simplification in       | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                                                                                        |
| 709 | <a href="#">US940805082</a> | United States | Active | Reducing bandwidth usage of a mobile client                                | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                                                                                        |
| 710 | <a href="#">US941165782</a> | United States | Active | Load-balanced sparse array processing                                      | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | JORGENSEN, STEVEN GLEN   GRAVEL, MARK ALLEN                                                                                      |
| 711 | <a href="#">US941335882</a> | United States | Active | Forward counter block                                                      | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | BRESNIKER, KIRK M.   ASTFALK, GREG                                                                                               |
| 712 | <a href="#">US942590282</a> | United States | Active | System including driver circuit for electrical signaling and optical       | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | HEWLETT-PACKARD ENTERPRISE DEVELOPMENT LP                                                                                        |
| 713 | <a href="#">US943110382</a> | United States | Active | Apparatus to store data and methods to read memory cells                   | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | PERNER, FREDERICK A.                                                                                                             |
| 714 | <a href="#">US946635282</a> | United States | Active | Dynamic/static random access memory (D/SRAM)                               | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | FATTAL, DAVID A.   BEAUSOLEIL, RAYMOND G.   DULIGALL, JOANNA                                                                     |
| 715 | <a href="#">US949441982</a> | United States | Active | Beam direction sensor                                                      | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | WRAY, MIKE                                                                                                                       |
| 716 | <a href="#">US951429082</a> | United States | Active | Authorization cache                                                        | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | PENG, ZHEN   FATTAL, DAVID A.   FIORENTINO, MARCO                                                                                |
| 717 | <a href="#">US952094682</a> | United States | Active | Optical engine                                                             | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | SILICON GRAPHICS INTERNATIONAL CORP.                                                                                             |
| 718 | <a href="#">US954788282</a> | United States | Active | Shared memory eigensolver                                                  | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | GOLAB, WOJCIECH   PICKETT, MATTHEW D.   KARP, ALAN H.                                                                            |
| 719 | <a href="#">US957661982</a> | United States | Active | Shiftable memory supporting atomic operation                               | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                                                                                        |
| 720 | <a href="#">US958451982</a> | United States | Active | Apparatus, and associated method, for controlling connectivity of a        | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | SILICON GRAPHICS INTERNATIONAL CORP.                                                                                             |
| 721 | <a href="#">US979859482</a> | United States | Active | Shared memory eigensolver                                                  | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | PICKETT, MATTHEW D.   WILLIAMS, R. STANLEY   RIBEIRO, GILBERTO M.                                                                |
| 722 | <a href="#">US984656582</a> | United States | Active | Shiftable memory employing ring registers                                  | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                                                                                        |
| 723 | <a href="#">US984659882</a> | United States | Active | Modifying a flow of operations to be executed in a plurality of execution  | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                                                                                        |
| 724 | <a href="#">US997195082</a> | United States | Active | Interactive optical codes                                                  | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | FATTAL, DAVID A.   FIORENTINO, MARCO   LI, JINGJING   TAN, MCCLELLAND, BELGIE B.   CONN, KEVIN D.   SMITH, KELLY K.              |
| 725 | <a href="#">US999167682</a> | United States | Active | Small-mode-volume, vertical-cavity, surface-emitting laser                 | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                                                                                        |
| 726 | <a href="#">USD73254751</a> | United States | Active | Bezel with docking recess                                                  | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                                                                                        |
| 727 | <a href="#">USD75366451</a> | United States | Active | Bezel with docking recess                                                  | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                                                                                        |
| 728 | <a href="#">USD76508851</a> | United States | Active | Bezel with docking recess                                                  | VALTRUS INNOVATIONS LTD   HEWLETT PACKARD ENTERPRISE DEV LP | VALTRUS INNOVATIONS LIMITED   HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.                                                                                        |