ADVANCED USER INTERFACES & DISPLAY DEVICES

Xerox Corporation & Palo Alto Research Center Incorporated

Initial Bidding Guidance: Low 7 Figures

With early priority dates from 1997, this portfolio is directed to improvements in user interfaces and display devices, including the following:

1. Method to detect handedness of a user and to interpret a user's inputs based on that detected handedness. *[6,243,074]*
2. A device supporting a manipulatable user interface includes a feedback module for presenting information related to a data structure, along with a processor for controlling the feedback module and the data structure. The feedback module can include non-visual tactile displays, auditory displays, or visual displays. *[6,243,075]*
3. Method to support a hand- or touch-operated user interface that detects user handedness and interprets user input based on handedness to modify the displayed data structure. *[6,630,922]*
4. Methods and systems to combine a plurality of display units with different resolutions, using display unit-specific scaling to compensate for different pixel sizes of each unit, in order to preserve the geometry of images displayed across multiple units and allow the user to view a substantially continuous image. Importantly, a flat high-resolution display is combined with a projection display such that the projection display surrounds the high-resolution display and the visible gap between them is minimized. *[7,333,071& 7,546,540; 7,475,356; 7,629,945 & 7,629,945]*
5. Methods to interpret user input based on physical manipulation of a device that is connected to a deformable piece having a plurality of sensors, including accelerometers to detect relative spatial information; gyroscopic, radio, or infrared positional sensors to determine absolute position; and various thermal or photo sensors to gauge changing temperature and light levels. *[6,268,857 & 7,082,578]* Can be applied to a revolvable device. *[6,297,838]*
6. Method and apparatus for a manipulatory user interface that responds to twisting, folding, bending, squeezing, shaking, tilting, spinning, lifting, or other physical manipulations. Employs physically manipulatable control elements to construct complex commands for organizing data structures. *[6,297,805]*
7. Method and apparatus for a dynamically relocatable tileable display capable of supporting optical, radio, or mechanical interconnections, wherein specific data based on relative spatial positions from several devices can be transferred through a plurality of communication modules. *[6,340,957]*

Forward Citing Companies: Adobe Systems, Amazon.com, Apple, AT&T, Blackberry, Canon, Casio, Covidien, Danaher, Dell, Digimarc, E Ink Holdings, Eastman Kodak, Exceptional Innovation LLC, Finning International, Flextronics International, Fujifilm, Fujitsu, Global OLED Technology LLC, Google, Hewlett-Packard, Hon Hai, HTC, IBM, Imerj LLC, Immersion Corporation, Infineon Technologies, Intel, Intellectual Ventures, Konami, Konica Minolta, Lenovo Group, LG Electronics, Logic Spa, Microchip Technology Inc., Microsoft, Motorola Solutions, NEC, Next Holdings Limited, Nintendo, Nokia, Panasonic, Philips, Pixart Imaging Inc., Qualcomm, Raytheon, Ricoh, Samsung, Sharp, Siemens AG, Smart Technologies Inc, Smith Micro Software Inc., Sony, Tactus Technology Inc., Toshiba, Verint Systems, Vodafone

TECHNOLOGY
USER INTERFACES AND DISPLAY DEVICES

NOVELTY
ADVANCED METHODS AND SYSTEMS FOR USER INTERFACES AND DISPLAY DEVICES

IMPORTANCE
A VALUABLE PORTFOLIO FOR ELECTRONIC COMMUNICATION DEVICE COMPANIES, SUCH AS MANUFACTURERS OF SMARTPHONES, TABLETS, AND LAPTOPS

NUMBER OF ASSETS
20

PATENTS (19)
US 6,243,074
US 6,243,075
US 6,268,857
US 6,297,805
US 6,297,838
US 6,340,957
US 6,630,922
US 7,082,578
US 7,333,071
US 7,475,356
US 7,546,540
US 7,629,945
CA 2385906
DE 0899650
EP 0899650
FR 0899650
GB 0899650
JP 4109012
JP 4149574

APPLICATIONS (1)
EP 02010604.3

ICAP

PATENT BROKERAGE

Priority Date: 08-29-1997

Representative Claim: US 7,333,071 – Claim #1
A method for displaying a perceived continuous image across first and second display areas, each display area having a given display resolution and the display resolution of one display area is different than the display resolution of the other display area comprising: a) providing a source image to be displayed on the first and second display areas, b) providing first and second portions of the source image to be displayed on the first and second display areas respectively wherein the second portion of the source image is a scaled portion of the source image such that when the first and second portions of the source image are displayed on the first and second display areas the resulting displayed image appears substantially continuous to a viewer situated to view the displayed image and the displayed resolution of the first portion of the source image is different from the displayed resolution of the second portion of the source image, and c) transmitting the first portion of the source image to the first display area and the second portion of the source image to the second display area.

Contact:
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