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Published:
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[Continued on next page]

(54) Title: EXTENSIBLE UNIVERSAL HOME AUTOMATION INTEGRATION FRAMEWORK AND USER INTERFACE

(57) Abstract: A software architecture and methods that provide an extensible and intuitive interface to all digital managed resources in the residential environment. The application of data management methods will create a normalized representation of all potentially managed digital resources and a modularized and customizable presentation layer to provide tailored views of that content. The system will maintain device and network independent, defining methods to support or rapidly incorporate existing and future devices and networks including but not exclusively: audio/video components; home appliances; computers; gaming devices; the Web; broadcast programming, other telecommunication capabilities; wired standards, CAT5, electrical and cable; wireless standards. The architecture provides methods for a heads up, context sensitive, simple point and click interface that are adapted to all current video display devices including remote hand held devices. Resource redundancy methods will also be included. Support methods that allows user configuration of new resources and content presentation will be provided.
Date of publication of the international search report:

4 October 2007

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.
INTERNATIONAL SEARCH REPORT

International application No.
PCT/US06/34820

A. CLASSIFICATION OF SUBJECT MATTER
IPC: G05B 15/02(2006.01), 19/18(2006.01), 11/01(2006.01), 15/00(2006.01); G06F 3/00(2006.01), 7/00(2006.01), 12/00(2006.01), 13/00(2006.01), 13/12(2006.01), 13/38(2006.01), 13/39(2006.01), 15/16(2006.01), 15/17(2006.01), 15/177(2006.01), 17/00(2006.01), 30/44 N 8/445(2006.01)

USPC: Please See Continuation Sheet
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S.: Please See Continuation Sheet

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
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<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
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<td>US 2006/0117132 A1 (GREY et al.) 1 June 2006 (01.06.2006).</td>
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<td>US 2006/010383 A1 (TANAKA et al.) 12 January 2006 (12.01.2006), page 4 [0090], page 7 [0134], page 17 [0312].</td>
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Further documents are listed in the continuation of Box C.

□ See patent family annex.

Date of the actual completion of the international search
19 June 2007 (19.06.2007)

Date of mailing of the international search report
27 JUL 2007

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Form PCT/ISA/210 (second sheet) (April 2005)
### INTERNATIONAL SEARCH REPORT

**Box No. II**  
**Observations where certain claims were found unsearchable**  
(Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. [ ] Claims Nos.:  
   because they relate to subject matter not required to be searched by this Authority, namely:

2. [ ] Claims Nos.:  
   because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. [ ] Claims Nos.:  
   because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box No. III**  
**Observations where unity of invention is lacking**  
(Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. [ ] As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. [ ] As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees.

3. [ ] As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. [ ] No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

**Remark on Protest**

[ ] The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.

[ ] The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.

[ ] No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet(2)) (April 2005)
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