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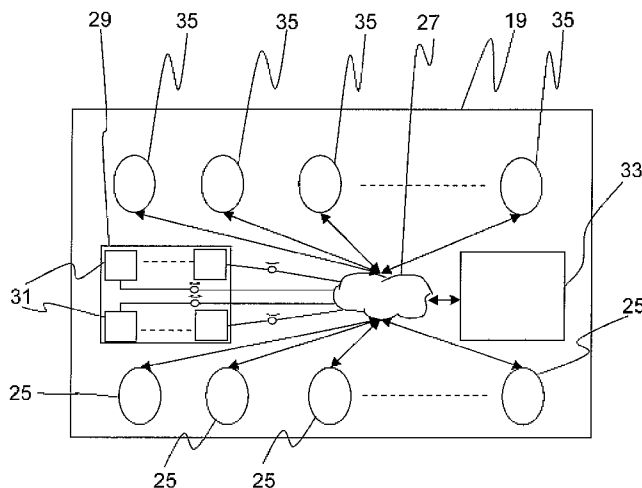
- (81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, **BR**, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, **HR**, HU, **ID**, IL, IN, IS, **JP**, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
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- Published:**
- with international search report
 - before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) **Title:** CONTROLLING DISTRIBUTION OF ELECTRICAL POWER

Fig. 3



(57) **Abstract:** The present invention is concerned with controlling distributing of electrical power in a power distribution region. To effectively control the distribution of power in the distribution region, the substation (3) of the region is provided with a distribution controller (19) or Intelligent Substation Control System (ISCS). The distribution controller is connected to various process devices (21), which in turn are connected to primary devices (23) of the region. The process devices send data corresponding to the primary devices to the distribution controller, and the distribution controller includes a processing means (29) which proposes a set of actions based on the received data. Further, the distribution controller comprises a coordinating means (33) which selects the final action from the set of proposed actions. The final act ion is implemented on the primary devices of the distribution region.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
INV. H02J3/04 H02J13/00

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)
H02J

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 practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document with indication, where appropriate, of the relevant passages	Relevant to claim No
X	ABB: "MicroSCADA Pro, DMS 600 *4.1: Operation Manual" 20050228, 28 February 2005 (2005-02-28), XP002500255 page 48 - page 49 page 127 - page 131	1,2,4-6
X	ABB: "MicroSCADA Pro for Substation Automation; Innovation from ABB" [Online] 2006, XP002502064 Retrieved from the Internet : URL : http://library.abb.com/global/scot/sco t296.nsf/verify/spiay/80176fal3a754f03cl2 5714c006fa418/\$File/IMRS756064_en_MicroSCA DA_Pro_for_Substation_Automation.pdf > [retrieved on 2008-10-24] page 2 - page 6	1,2, 4-6

Further documents are listed in the continuation of Box C

See patent family annex

* Special categories of cited documents

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

6 November 2008

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06/02/2009

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INTERNATIONAL SEARCH REPORT

International application No

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WO 00/48284 A (BITRONICS INC [US]) 17 August 2000 (2000-08-17) abstract; figures 2,4-7 page 4, line 22 - line 26 page 6, line 10 - page 9, line 21 page 15, line 1 - line 4</p> <p style="text-align: center;">-----</p>	1,5,6
X	<p>WO 00/48288 A (NU LEC PTY LTD [AU]; MURRAY DAVID RUSSELL [AU]) 17 August 2000 (2000-08-17) abstract; figure 2 page 1, line 5 - page 12, line 21 page 25, line 18 - line 25</p> <p style="text-align: center;">-----</p>	1,5,6
A	<p>BOOTH C ET AL: "Enhanced power system control and management via intelligent substations" ADVANCES IN POWER SYSTEM CONTROL, OPERATION AND MANAGEMENT, 1993. APSC OM-93., 2ND INTERNATIONAL CONFERENCE ON HONG KONG, LONDON, UK, IEE, UK, 1 January 1993 (1993-01-01), pages 542-547, XP006514202 ISBN: 978-0-85296-569-6 page 544, col umn 2; figures 3,4</p> <p style="text-align: center;">-----</p>	1,5,6

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2008/059347

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

see additional sheet

- 1 As all required additional search fees were timely paid by the applicant, this international search report covers allsearchable claims

- 2 As all searchable claims could be searched without effort justifying an additional fees, this Authority did not Invite payment of 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

1-6

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

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-6

A distribution controller comprising coordinating means, which are adapted to coordinate the proposed actions based on a prioritizing or ranking order and where the prioritizing or ranking order is based on an operating history of the primary device.

2. claims: 7-8

A method of controlling distribution of electrical power over a power distribution system comprising two distribution regions and controllers. The derived actions are coordinated by a coordinating means of the first controller, based on the input from the second controller.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0048284 A	17-08-2000	AU 2726200 A	29-08-2000
		EP 1151516 A1	07-11-2001
		US 2003067725 A1	10-04-2003
		US 6496342 B1	17-12-2002
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WO 0048288 A	17-08-2000	GB 2361592 A	24-10-2001
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