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[Continued on next page]

(54) Title: MULTICAST CONTROL CHANNEL DESIGN

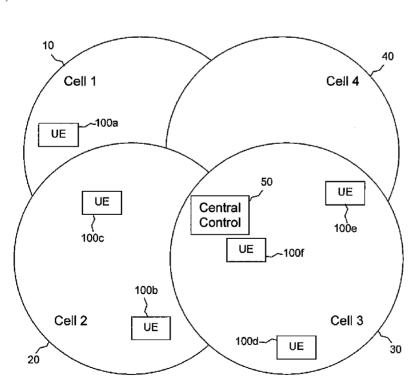


Figure 1



(57) Abstract: A system 700 for providing a multicast control channel (MCCH) including information related to a service is provided. The system 700 includes processor 720 programmed to promote transmission of a MCCH including a multi-cell information portion 130 that contains information common to a plurality of cells in a wireless telecommunications network, and a cell-specific information portion 120 that contains information specific to one of the cells. A method for providing control information is also provided. The method includes transmitting multicast control channel (MCCH) including information related to a service, wherein the MCCH has a cell-specific portion 120 that contains information specific to a specific cell in a telecommunications network, and wherein the MCCH has a multi-cell portion 130 that contains information common to a plurality of cells in the telecommunications network.

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NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

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Relevant to claim No.

A. CLASSIFICATION OF SUBJECT MATTER INV. H04Q7/22

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Category*

Minimum documentation searched (classification system followed by classification symbols) $H040\,$

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)

Citation of document, with indication, where appropriate, of the relevant passages

EPO-Internal, WPI Data

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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:
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. X 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 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 reportcovers 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.:
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. X 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: 1-8, 32

Invention I is directed to a system and method for providing a service in which a central control specifies modulation and coding scheme related to transmission of the service and communicates with the plurality of cells to promote the transmission of the service by the plurality of cells using the modulation and coding scheme.

2. claims: 9-26, 32

Invention II is directed to a system and method for providing a multicast control channel having information related to a service, wherein the multicast control channel has a specific cell portion that contains information specific to a specific cell in a telecommunications network and wherein the multicast control channel has a multicell portion that contains information common to a plurality of cells in the telecommunications network.

3. claims: 27-32

Invention III is directed to a system for transmitting channel information comprising a central control in a wireless communications network, the central control having a processor configured to promote a plurality of cells transmitting a multicast control channel, wherein the multicast control channel has a specific cell portion that contains information specific to a specific cell in a telecommunications network and a multicell portion that contains information common to a plurality of cells in the telecommunications network, and wherein the central control is configured to identify a service and promote transmission by cells of the multicast control channel having similar control information related to the service transmitted on a multi-cell information portion.

Information on patent family members

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