Abstract: A data forwarding apparatus and method for reducing a HandOver (HO) interruption time in a wireless communication system where a macro cell and a femto cell coexist are provided. An operation method of a Mobile Station (MS) for data forwarding in a wireless communication system includes synchronizing with a serving Base Station (BS) after completing a HO procedure with a target BS, and receiving data packets existing in a queue through an air link directly from the serving BS.

Title: DATA FORWARDING APPARATUS AND METHOD FOR REDUCING HANDOVER INTERRUPTION TIME IN A WIRELESS COMMUNICATION SYSTEM

Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, UA, UK, US, UZ, VCN, ZA, ZM, ZW).


[Continued on next page]
before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

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A. CLASSIFICATION OF SUBJECT MATTER

H04W 36/02(2009.01)i, H04W 36/22(2009.01)i, H04B 7/26(2006.01)i

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)

H04W 36/02; H04Q 7/00; G06F 15/173; H04W 36/08

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKOMPASS(KIPO internal) & Keywords: Hand over, Macro cell, Femto cell

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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<th>Category</th>
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<th>Relevant to claim No.</th>
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<tr>
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<td>KR 10-2008-0050183 A (ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE) 05 June 2008 See claims 1-16 and figures 1-10.</td>
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<td>A</td>
<td>US 2009-0046665 A1 (ROBSON, JULIUS et al.) 19 February 2009 See claims 1-25 and figures 1-5.</td>
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☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

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Date of the actual completion of the international search

29 NOVEMBER 2010 (29.11.2010)

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<td>US 2008-0132240 A1</td>
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