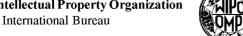
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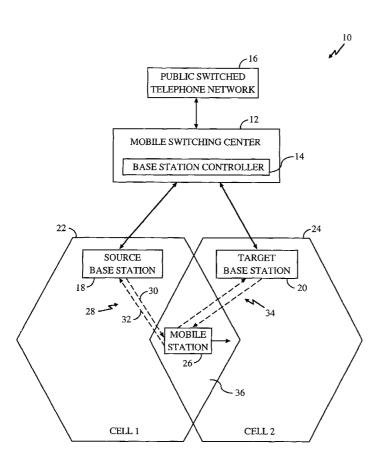
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#### **Published:**

with international search report

[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR OPTIMIZING SYSTEM-ACCESS AND SOFT-HANDOFF PARAMETERS BASED ON LOCATION INFORMATION



(57) Abstract: A system and method for updating a current set of parameters in a communications system is provided. The system and method determines the current position of a mobile unit in a first coverage area, determines a set of optimum parameters based on the current position of the mobile unit, and updates the current set of parameters in the mobile unit with the set of optimum parameters. The system and method may be used for optimizing position-dependent system-access and soft-handoff parameters.

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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.

Inte I Application No PCT/US 02/29894

# A. CLASSIFICATION OF SUBJECT MATTER PC 7 H04Q7/38

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)  $I\,PC\,\,7\,\,\,H04Q$ 

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, WPI Data, PAJ

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			35,36
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	page 2, line 3-20		
	page 8, line 2-4 - line 14,15		
v	page 9, line 1-21	15 21	05 :22
X	page 5, line 6-11 -page 9, line	13-21	25,33,
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Υ	page 9, line 15-21		39,40
			32,40
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X Furth	ner documents are listed in the continuation of box C.	X Patent family members are listed	in annex.
Special ca	tegories of cited documents :	"T" later document published after the inte	rnational filing data
"A" docume	ent defining the general state of the art which is not	or priority date and not in conflict with	the application but
consid	ered to be of particular relevance	cited to understand the principle or the invention	eory underlying the
E" earlier o' filing d	locument but published on or after the international ate	"X" document of particular relevance; the cannot be considered novel or cannot	
"L" docume	nt which may throw doubts on priority claim(s) or	involve an inventive step when the do	cument is taken alone
	is cited to establish the publication date of another n or other special reason (as specified)	"Y" document of particular relevance; the c cannot be considered to involve an in-	
"O" docume other r	ent referring to an oral disclosure, use, exhibition or	document is combined with one or mo ments, such combination being obvious	re other such docu-
"P" docume	ent published prior to the international filing date but	in the art.	·
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Date of the	actual completion of the international search	Date of mailing of the international sea	гсп героп
6	March 2003	0 7, 04, 03	
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	Fax: (+31-70) 340-3016	1	

Inter I Application No
PCT/US 02/29894

4.	Ition) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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Α	US 6 249 252 B1 (DUPRAY DENNIS J)	1-40
,	19 June 2001 (2001-06-19)	
	abstract	
	•	

PCT/US 02/29894

x I Observations where certain claims were found unsearchable (Continuation of item 1 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 II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)					
This International Searching Authority found multiple inventions in this international application, as follows:					
see additional sheet					
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 fee, this Authority did not invite payment of any additional fee.					
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.:					
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.  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: 1-40

- a. Claims 1-22 relate to a communication system, mobile unit and base station for performing system-access and soft-handoff adopting optimized parameters based on position information of the mobile unit;
- b. Claims 23-40 relate to a method, computer readable medium and apparatus for performing soft-handoff, updating a set of parameters and restricting mobility of a mobile unit, based on optimized parameters based on the position information of the mobile unit.

#### 2. Claims: 41-44

c. Claims 41-44 relate to a method, computer readable medium and apparatus for optimizing parameters in atelecommunication system, comprising a mobile unit and an intelligent system.

Information on patent family members

Intel Application No
PCT/US 02/29894

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