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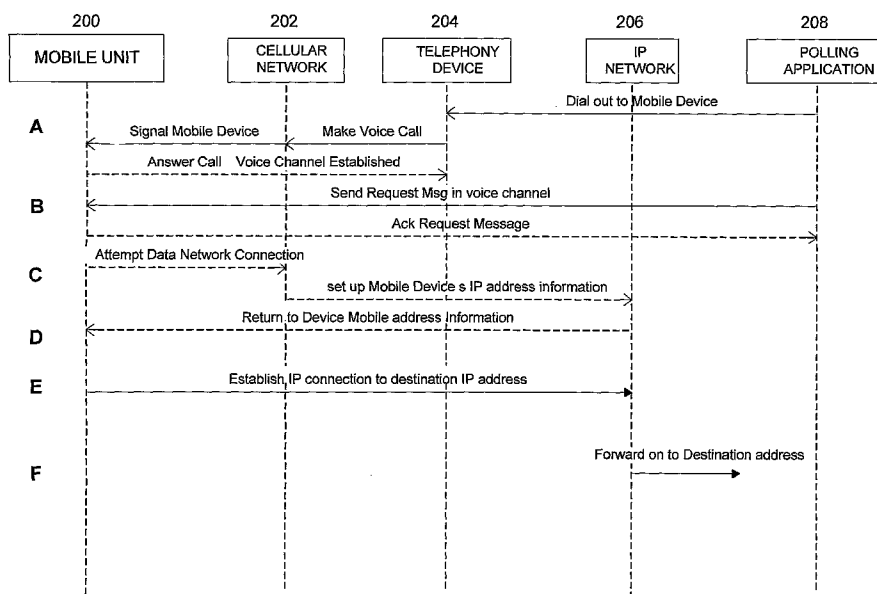
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[Continued on next page]

(54) Title: VOICE CHANNEL CONTROL OF WIRELESS PACKET DATA COMMUNICATIONS



(57) Abstract: A data session with a wireless device (114, 116) ordinarily cannot be initiated from the network side because the wireless device has no predetermined IP or other network address. Methods are disclosed for instead causing the wireless unit to initiate a data session with a target destination or polling application (130, 150, 208), thereby obviating the IP addressing problem. A voice call is first initiated by a requester or polling application (100) to a remote wireless unit (112). The requester transmits a request message to the remote wireless unit via the wireless voice channel (108) using in-band techniques; preferably including a payload in the polling message that identifies the target destination. In response, the remote wireless unit initiates a packet data session (120, 140) with the target destination (130, 150).

WO 2006/083877 A3



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/03416

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC: H04L 12/66;H04Q 7/00

USPC: 370/352  
 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. : 370/352, 353, 354, 355, 356

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)  
 Please See Continuation Sheet

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X — A	US 2002/0095293 A1 (GALLAGHER et al.) 18 July 2002, paragraphs [00227] and [0028]	1-3, 6, 7, 9, 11-17, 19, 20
A	US 2004/0171370 A1 (NATARAJAN) 02 September 2004, see entire document.	4, 5, 8, 10, 18 1-20
A	US 2002/0122401 A1 (XIANG et al.) 05 September 2002, see entire document.	1-20
A	US 2002/0101975 A1 (TIBURTIUS et al.) 01 August 2002, see entire document.	1-20
A	US 2002/0111167 A1 (NGUYEN et al.) 15 August 2002, see entire document.	1-20
A	US 6,493,338 B1 (PRESTON et al.) 10 December 2002, see entire document.	1-20

Further documents are listed in the continuation of Box C.  See patent family annex.

* Special categories of cited documents:	"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
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
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"O" document referring to an oral disclosure, use, exhibition or other means	
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Continuation of B. FIELDS SEARCHED Item 3:

EAST

search terms: wireless, mobile, polling, in-band, voice adj call, voice adj session, data adj call, data adj session,