

# (12) United States Patent

### Puuskari

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(54)	CONTROL OF GATEWAY SUPPORT NODE
	SELECTION

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- Assignee: Nokia Networks Oy, Espoo (FI)
- (\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35

U.S.C. 154(b) by 0 days.

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§ 371 (c)(1),

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(51) Int. Cl.

H04L 12/26 (2006.01)

(52) **U.S. Cl.** ...... **370/225**; 370/252; 370/331; 370/401

(58) Field of Classification Search ...... 370/328, 370/338, 401, 216-218, 229, 230, 235, 237, 370/252, 310, 349, 402, 225, 262

See application file for complete search history.

#### (56)**References Cited**

### U.S. PATENT DOCUMENTS

5,752,162 A 5/1998 Sawyer et al.

5,892,819	A *	4/1999	Stumer 379/211.02
6,070,192	A *	5/2000	Holt et al 709/227
6,104,929	A *	8/2000	Josse et al 455/445
6,233,458	B1*	5/2001	Haumont et al 455/445
6,535,507	B1*	3/2003	Li et al 370/356
6,608,832	B2*	8/2003	Forslow 370/353
6,636,502	B1*	10/2003	Lager et al 370/352
6,738,909	B1*	5/2004	Cheng et al 726/3
6,829,242	B2*	12/2004	Davison et al 370/401
6,937,566	B1*	8/2005	Forslow 370/231
2001/0055299	A1*	12/2001	Kelly 370/352
2003/0026273	A1*	2/2003	Davison et al 370/409
2007/0091862	A1*	4/2007	Ioannidis 370/338
2007/0195791	A1*	8/2007	Bosch et al 370/395.52
2007/0213058	A1*	9/2007	Shaheen 455/436

### FOREIGN PATENT DOCUMENTS

WO	WO 98/59468	12/1998
WO	WO 00/14981	3/2000

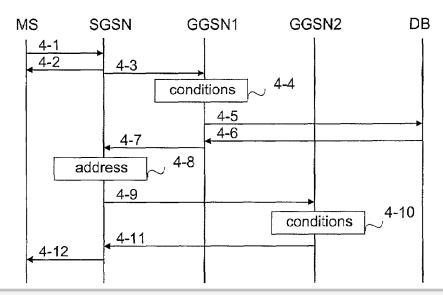
<sup>\*</sup> cited by examiner

Primary Examiner—Chi H. Pham Assistant Examiner—Shick Hom (74) Attorney, Agent, or Firm-Pillsbury Winthrop Shaw Pittman, LLP

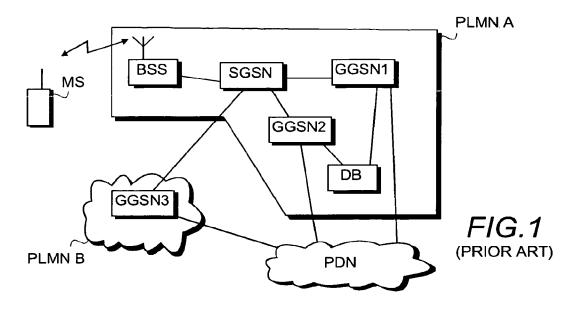
#### (57)ABSTRACT

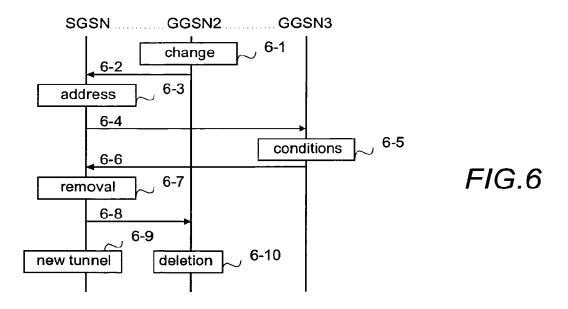
The invention relates to controlling selection of a gateway support node of a packet-switched network. The invention includes defining at least one condition for the gateway support node. When the condition is fulfilled, another gateway support node is more suitable for transmitting packets. When fulfillment of the condition is detected, a first message indicating the other gateway support node is transmitted to the serving support node.

### 12 Claims, 4 Drawing Sheets

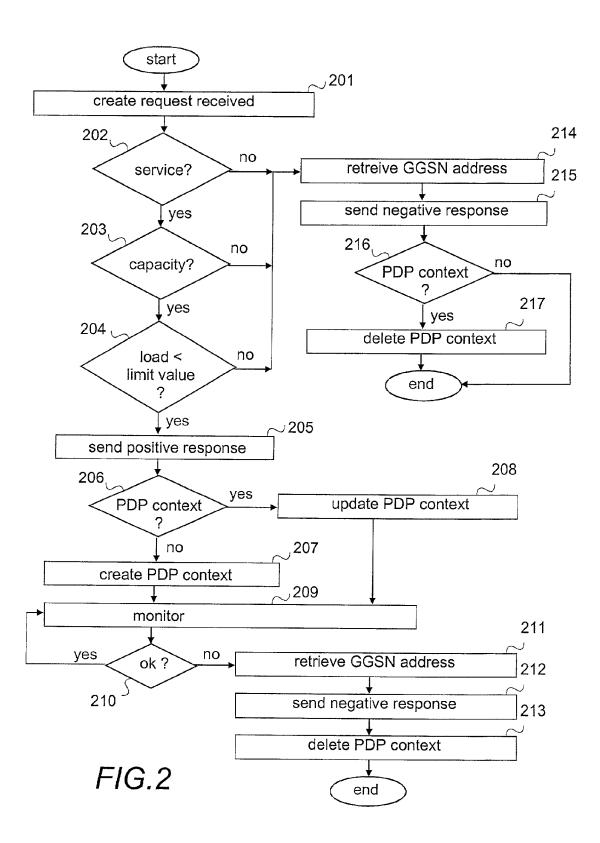




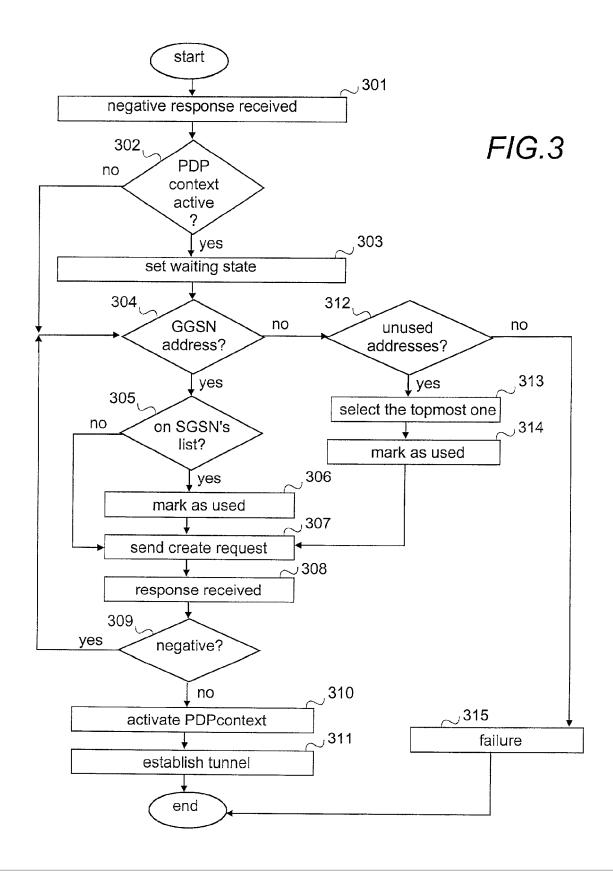














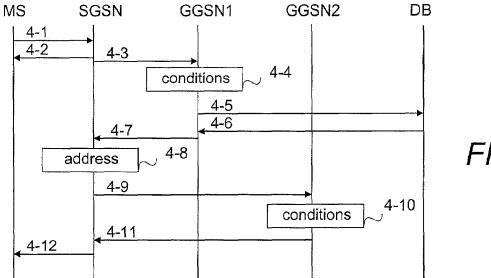


FIG.4

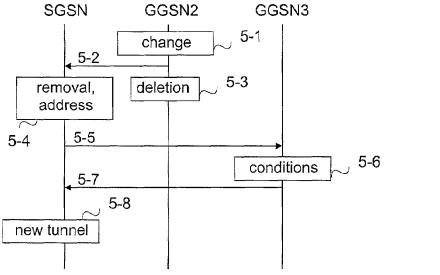


FIG.5

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