

United States Patent [19]

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La Porta et al.

[45] Date of Patent: **Dec. 5, 1995**

[54] **SIGNALING SYSTEM FOR BROADBAND COMMUNICATIONS NETWORKS** 5,278,889 1/1994 Papanicolaou et al. 379/230
5,329,308 7/1994 Binns et al. 348/14

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[21] Appl. No.: **164,514**

[57] ABSTRACT

[22] Filed: **Dec. 9, 1993**

A network architecture is designed to allow a communications service subscriber to select a signaling provider independently of a) the transport carriers which control the local loops for particular communications services, and b) the providers of those services. Upon the establishment of a signaling connection from a subscriber's terminal device to the signaling provider's network, the latter requests those services from the service providers selected by the subscriber for delivery over the local loops of the transport providers.

[51] Int. Cl.⁶ **H04M 11/00**

[52] U.S. Cl. **379/201**; 370/110.1; 370/58.1; 370/60.1; 370/73; 348/14; 348/12; 348/6; 379/207; 379/220; 379/221

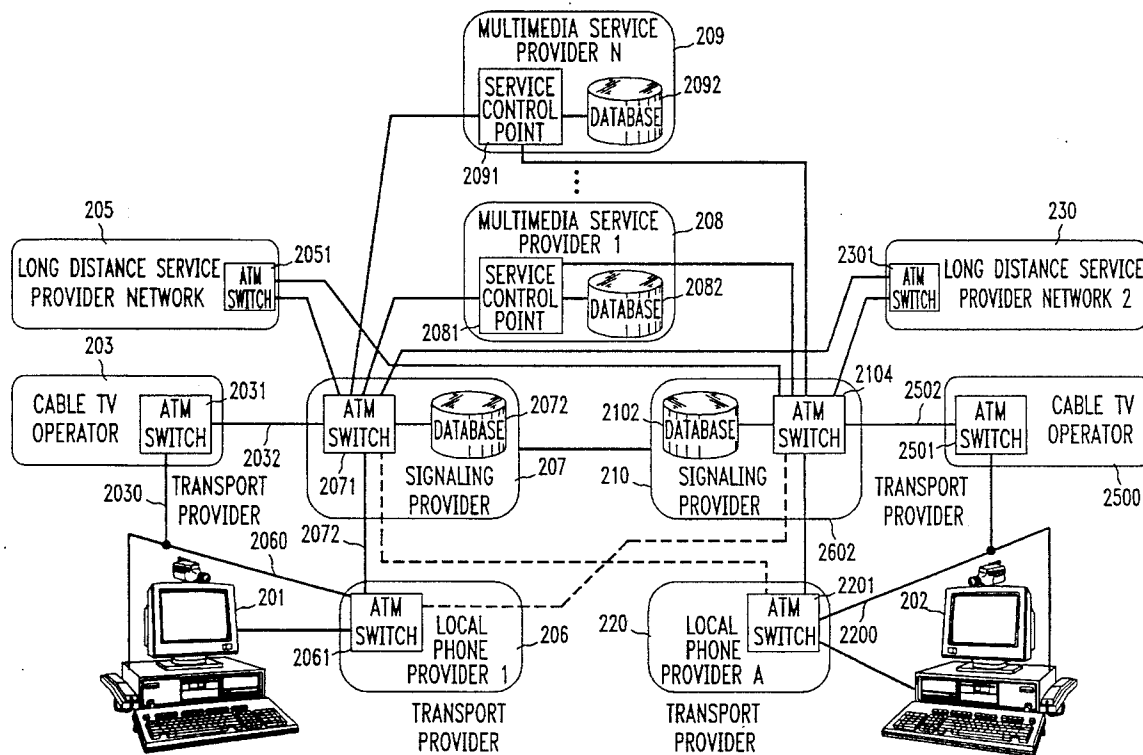
[58] **Field of Search** 379/201, 207, 379/94, 220, 221, 112; 370/110.1, 58.1, 58.2, 60.1, 71, 73, 76; 348/14, 6, 7, 8, 12, 13

[56] References Cited

U.S. PATENT DOCUMENTS

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22 Claims, 4 Drawing Sheets



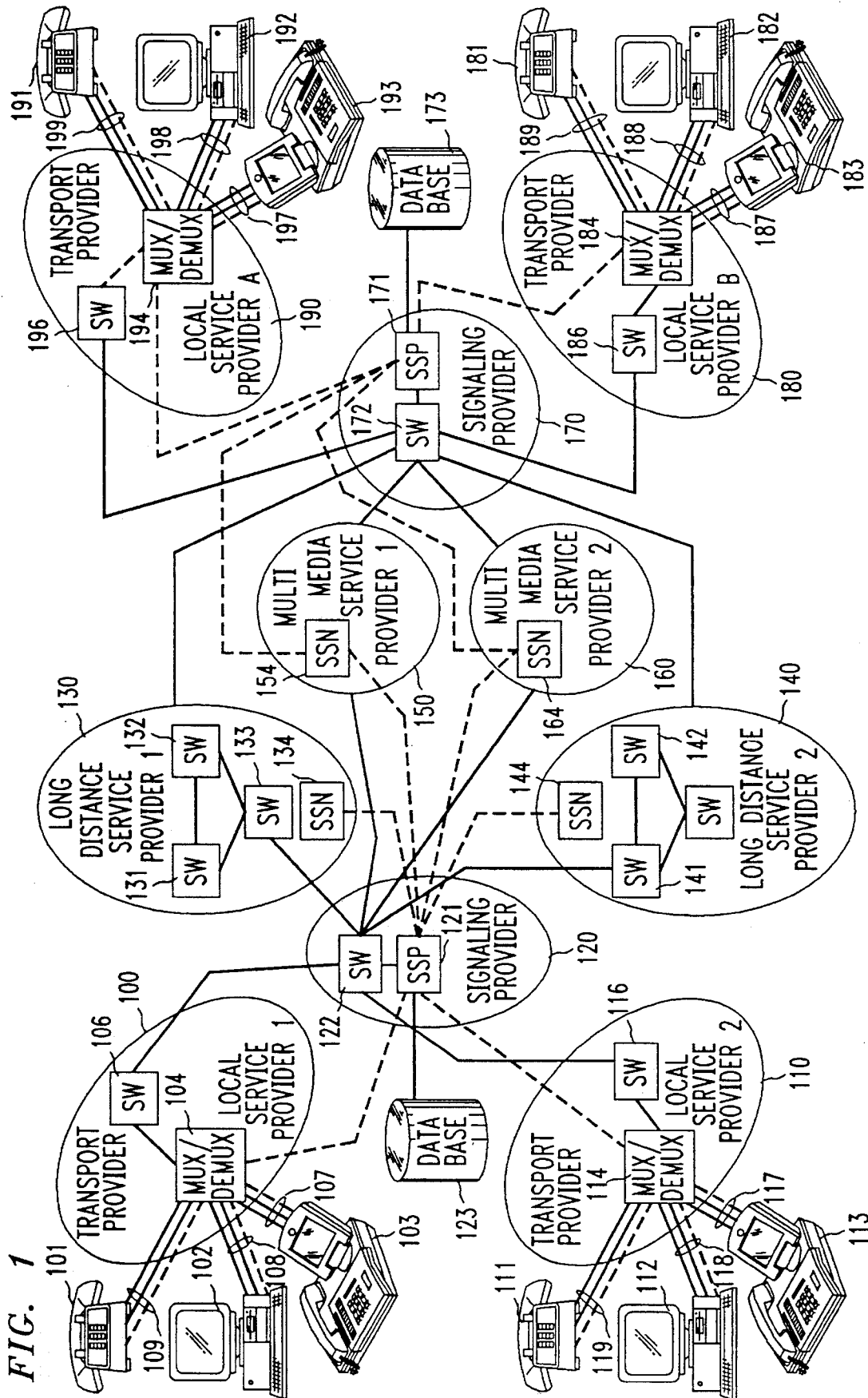


FIG. 1

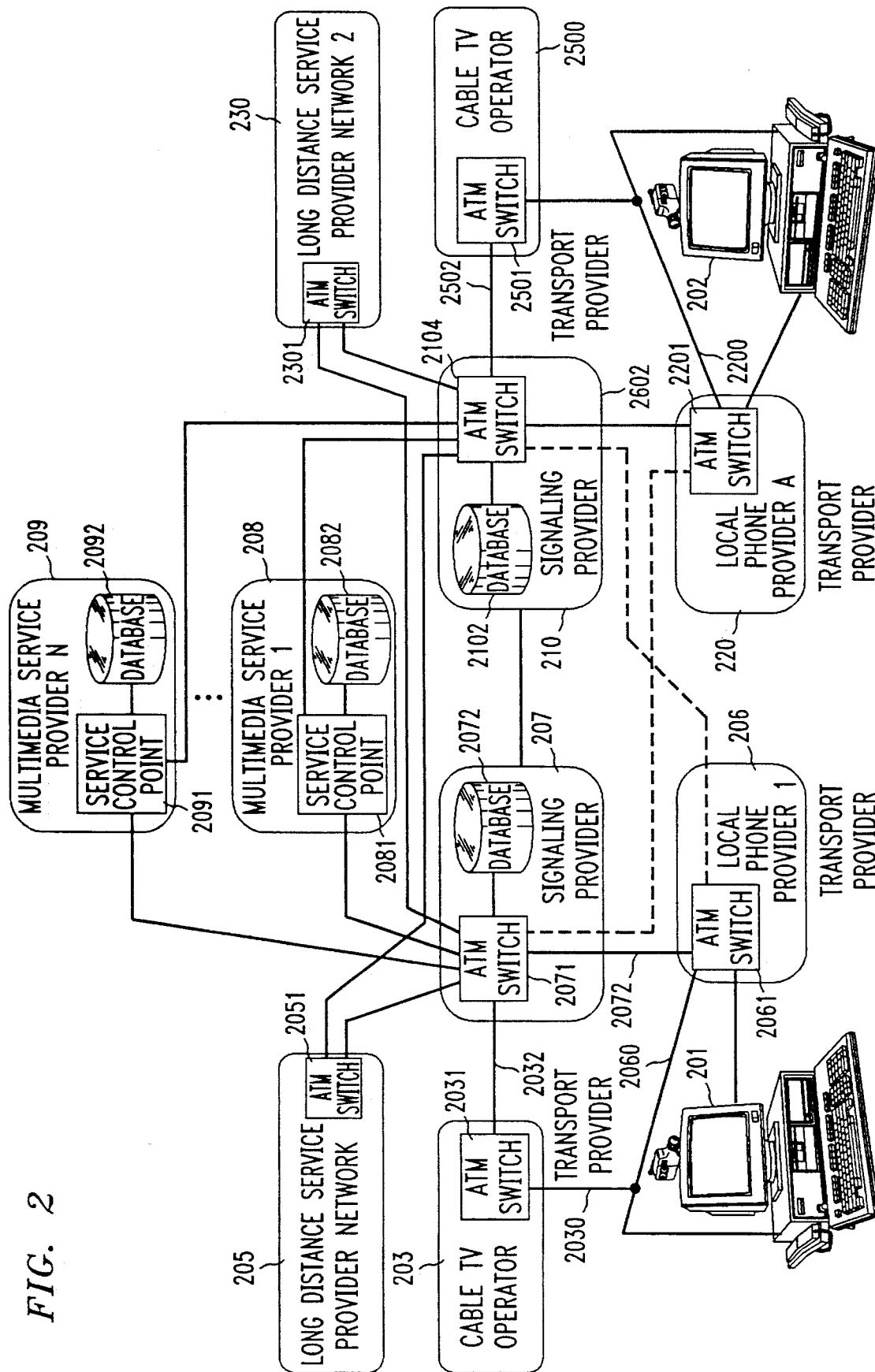


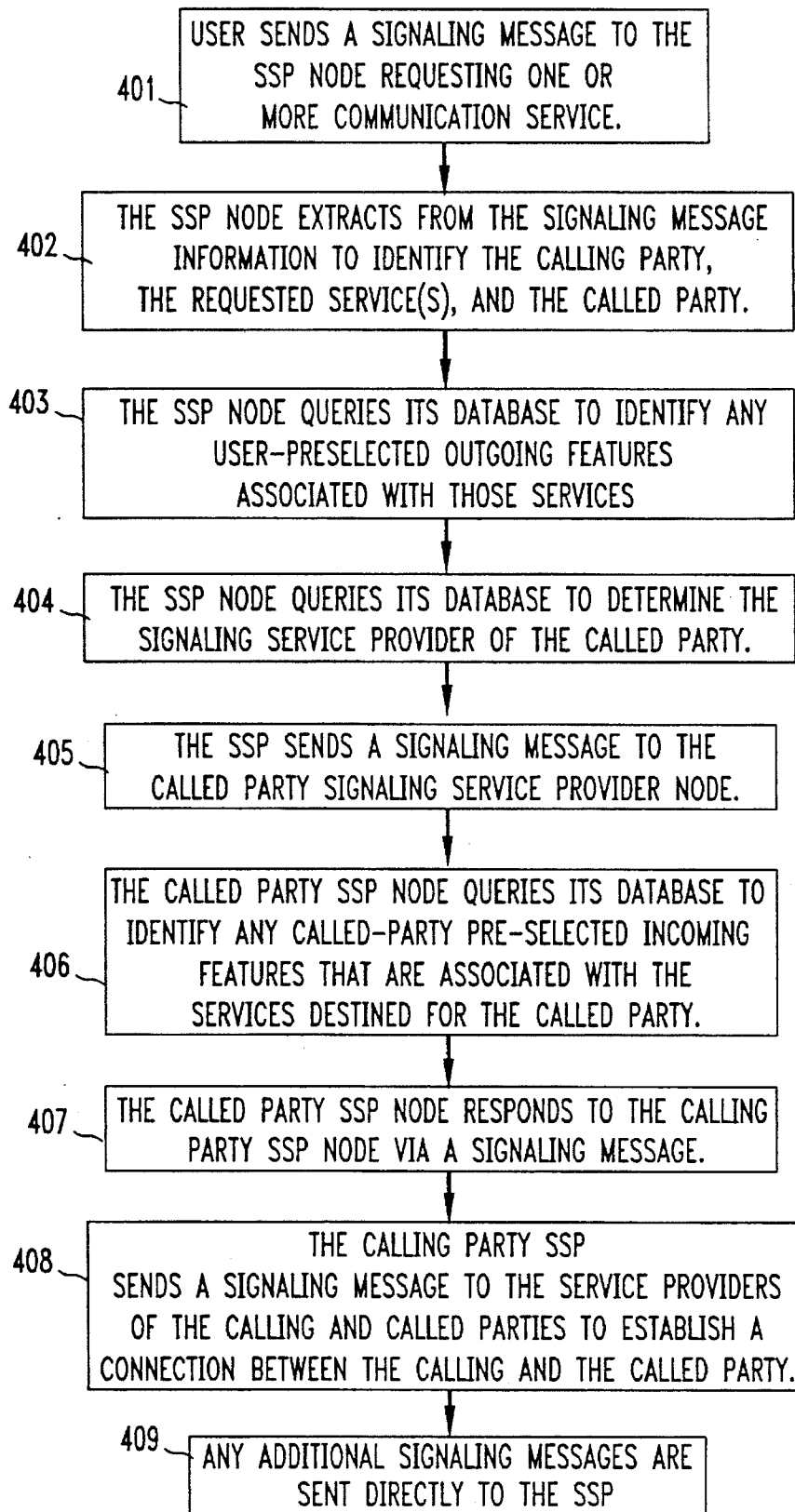
FIG. 2

...

FIG. 3

SUBSCRIBER'S ADDRESS		TRANSPORT/SERVICE PROVIDERS								INCOMING SERVICES		OUTGOING SERVICES	
		ACCESS		EGRESS		LONG DISTANCE		CALL WAITING	VOICE MAIL	VOICE QUALITY	VIDEO QUALITY		
		VOICE	MULTI MEDIA	VOICE	MULTI MEDIA	VOICE	MULTI MEDIA						
SUBSCRIBER 1	201 949-2000	LEC	MONMOUTH CABLE TV CO.	LEC	MONMOUTH CABLE TV CO.	AT&T	AT&T	AT&T	YES	YES	HIGH	HIGH	
SUBSCRIBER 2	212 234-6789	TELE-PORT	LEC	TIME WARNER CABLE	LEC	US SPRINT	IRIDIUM	NO	NO	LOW	LOW	LOW	
...	
SUBSCRIBER N	215 456-7890	OXFORD VALLEY TV CO.	OXFORD VALLEY TV CO.	OXFORD VALLEY TV CO.	OXFORD VALLEY TV CO.	AT&T	AT&T	AT&T	YES	NO	HIGH	HIGH	

FIG. 4



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