

[54] DATA PACKET RADIO SERVICE WITH ENHANCED MOBILITY MANAGEMENT

2 307 828 6/1997 United Kingdom .

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Related U.S. Application Data

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[51] Int. Cl.<sup>7</sup> ..... H04Q 7/20; H04B 1/38

[52] U.S. Cl. .... 455/445; 455/426; 455/560; 370/379; 370/465

[58] Field of Search ..... 455/426, 445, 455/560; 370/328, 329, 349, 389, 401, 465, 466; 709/230, 249; 714/748, 749, 750

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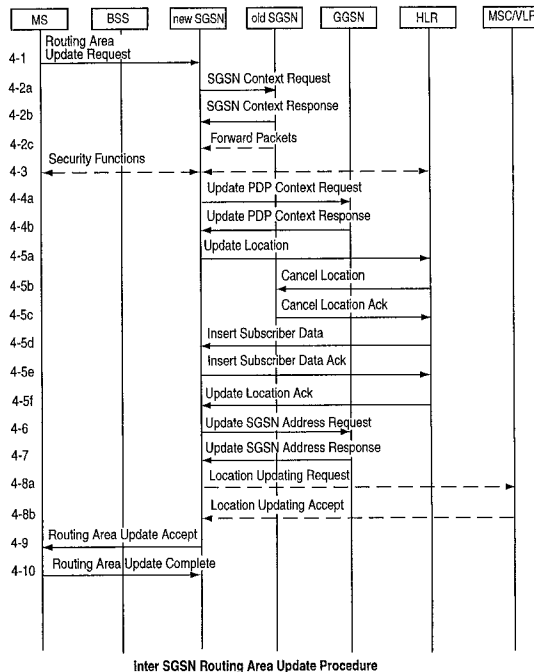
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Assistant Examiner—Charles N. Appiah  
Attorney, Agent, or Firm—Nixon & Vanderhye, P.C.

[57] ABSTRACT

The address of a latest Serving GPRS Support Node (SGSN) is provided to a Gateway GPRS Support Node (GGSN) by a special Update SGSN Address Request message which is sent from the SGSN to the GGSN. For a subscriber whose subscription permits, the address of the latest SGSN node is sent in the Update SGSN Address Request message for a qualified packet data protocol (PDP) context. A qualified PDP context (1) has a static PDP address; and (2) is not activated. The Update SGSN Address Request message can be sent from the SGSN to the GGSN in either a GPRS Attach scenario or an Inter-SGSN Routing Area Update Scenario. In response to the Update SGSN Address Request message, the GGSN sends an Update SGSN Address Response message which advises whether the updating of the address for the SGSN at the GGSN has been successful.

24 Claims, 7 Drawing Sheets



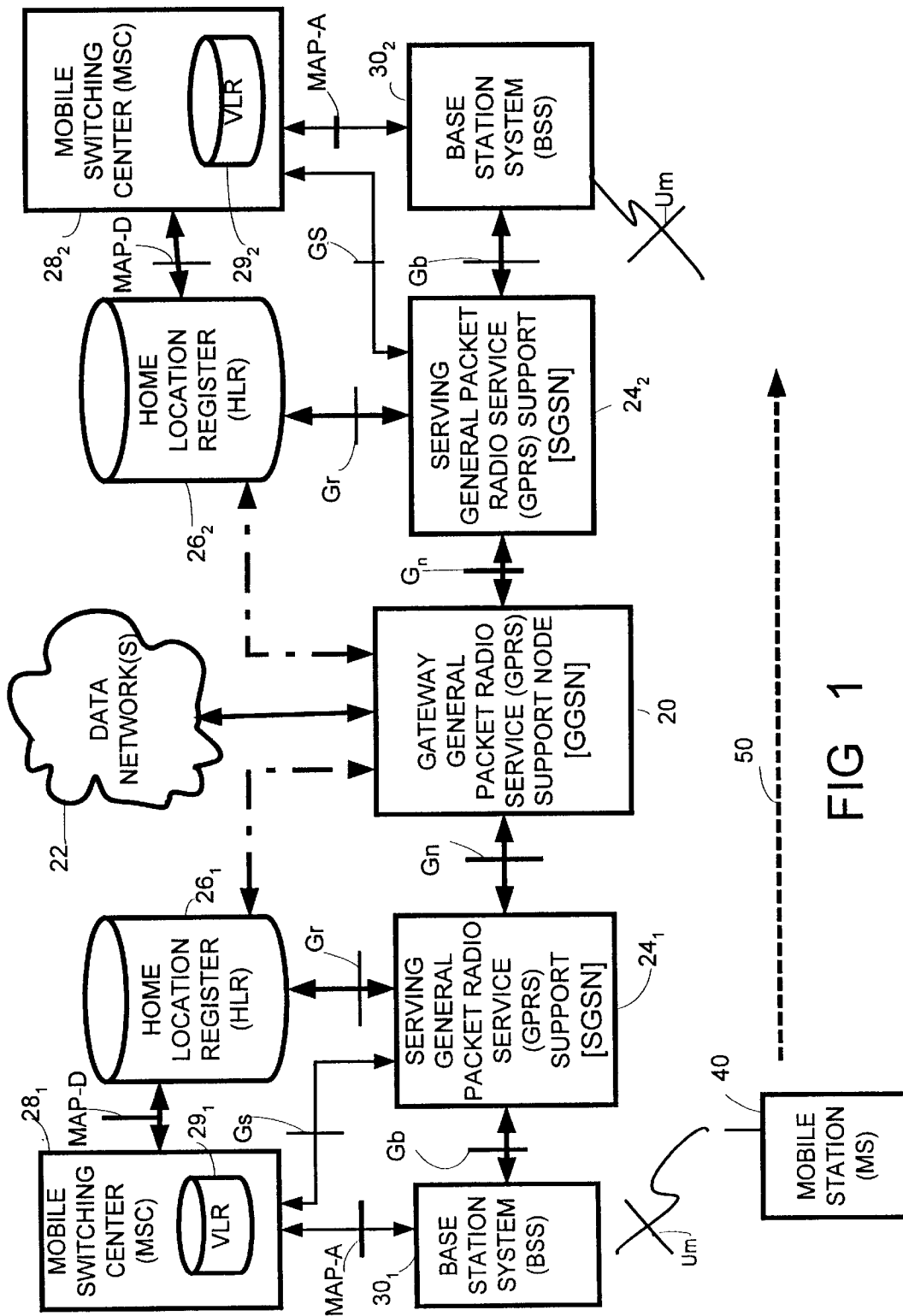


FIG 1

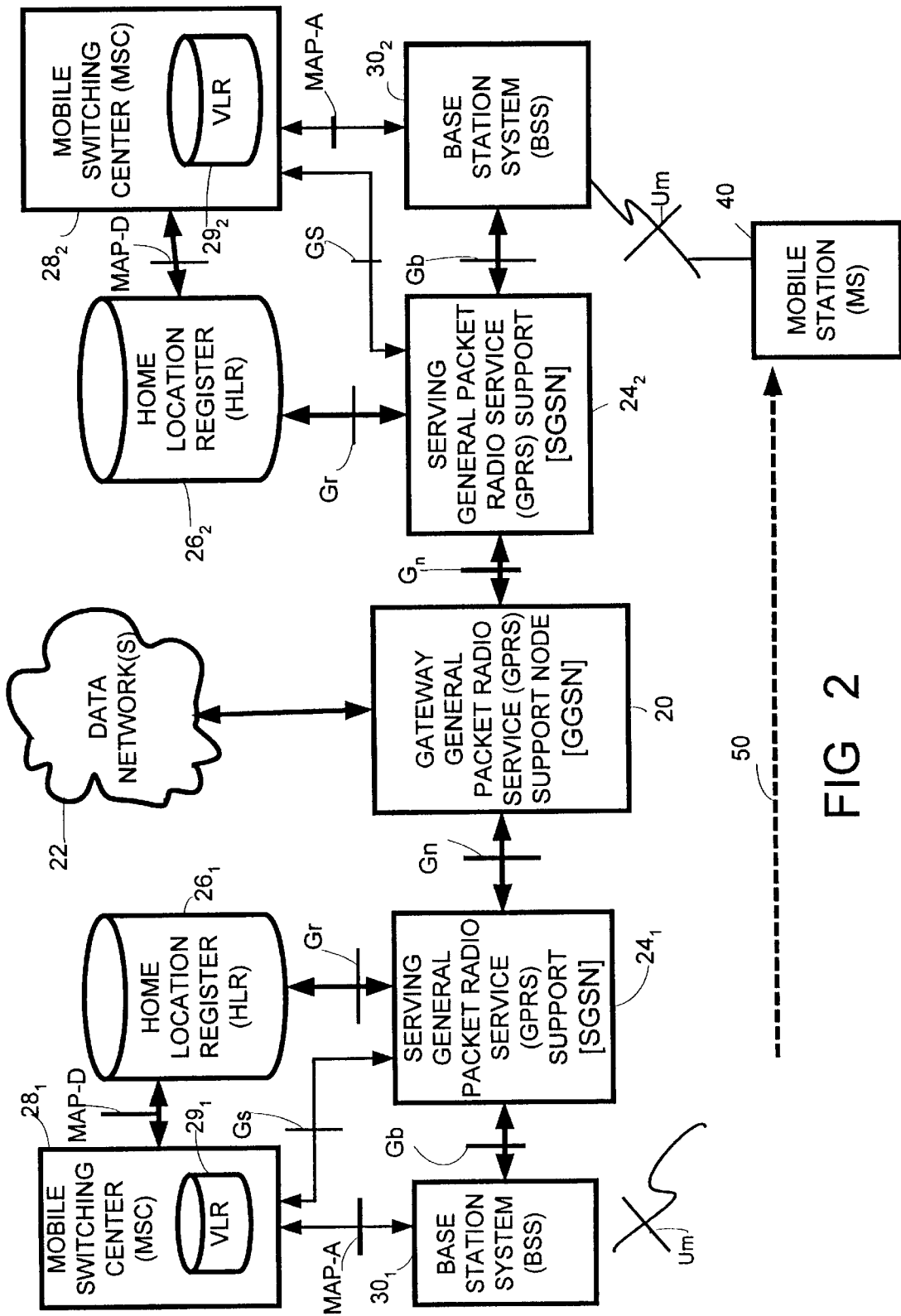


FIG 2

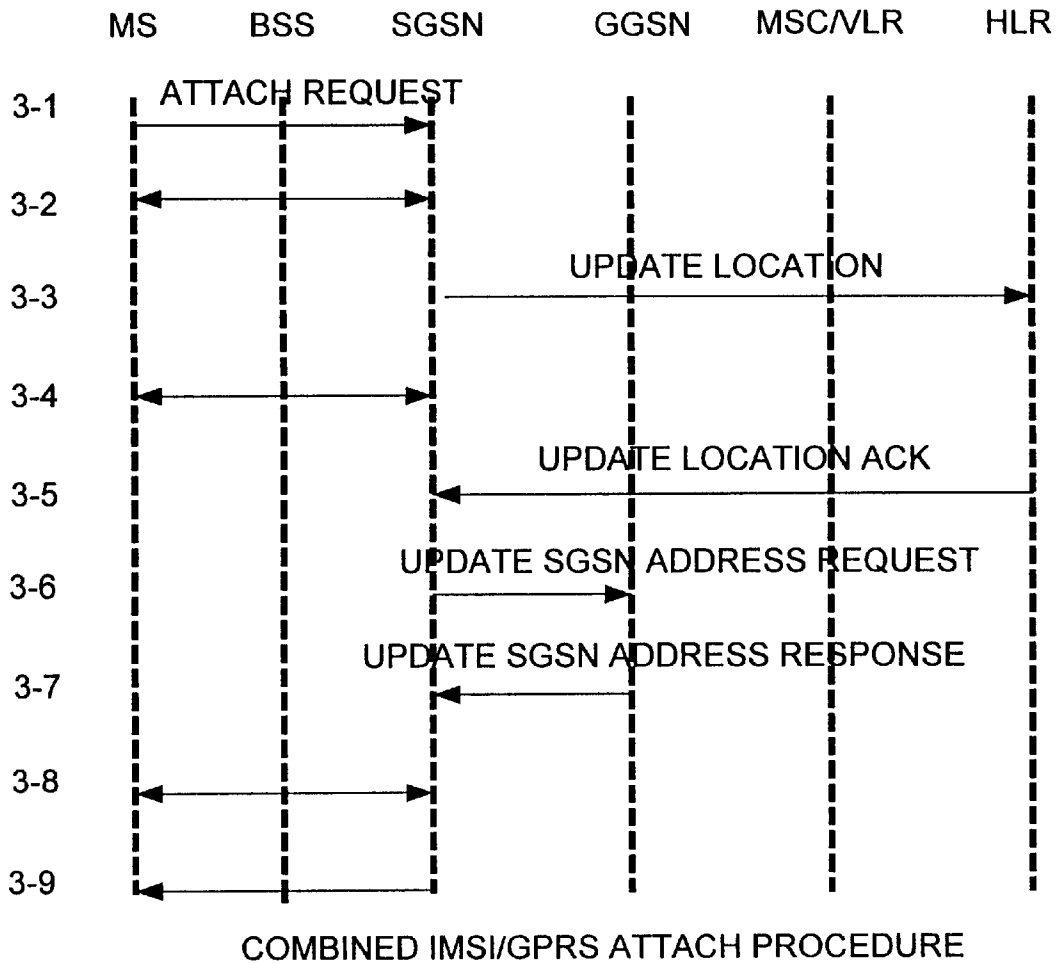


FIG 3

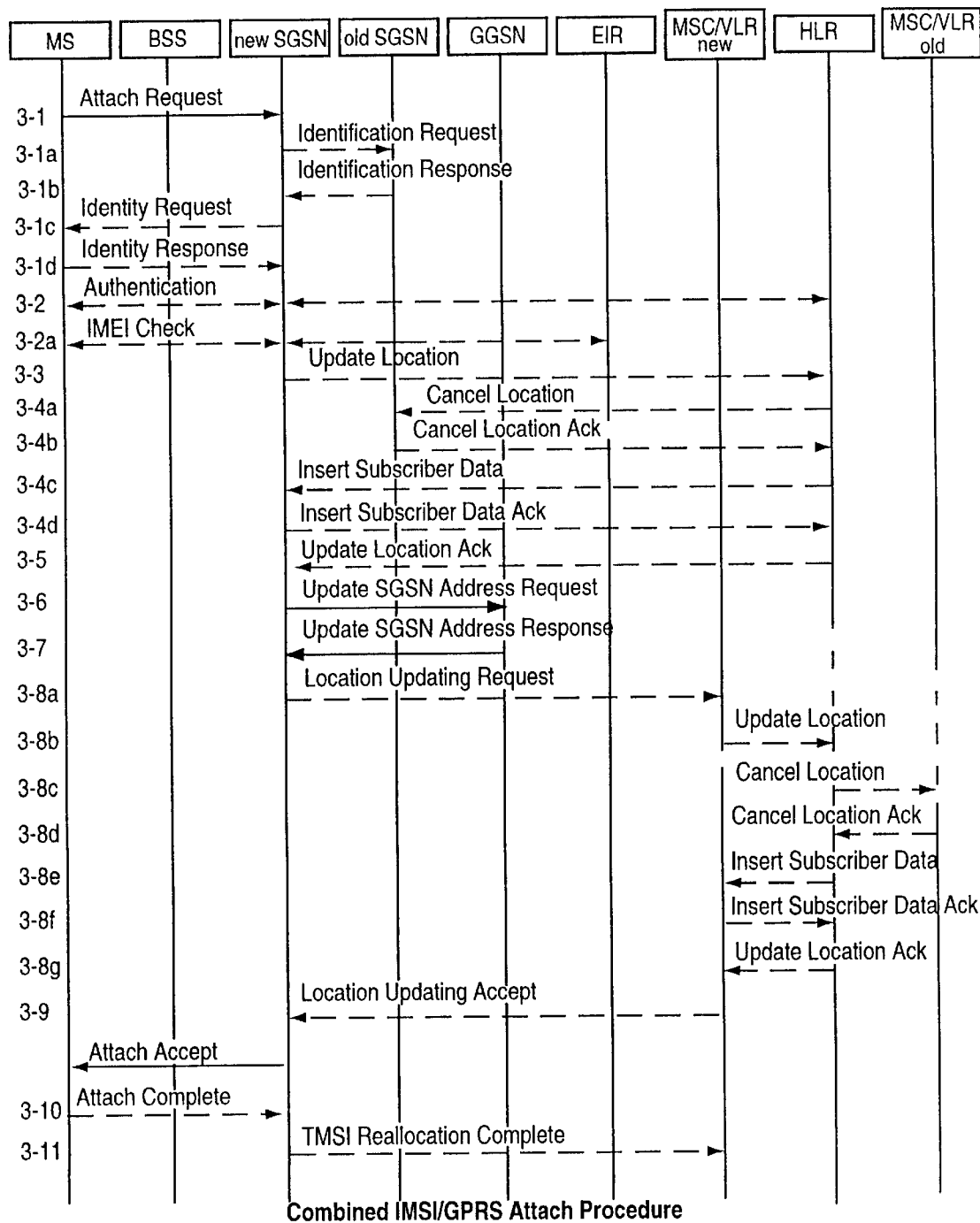


FIG 3A

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