

## Ota et al.

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- 20 Claims, 19 Drawing Sheets**

A mobile station belonging to an overlay communication network, which includes a micro cell having a first cell size and a macro cell having a second cell size, has a mobile station identification address in the application layer defined by the OSI reference model, and also has a plurality of addresses, each of the plurality of addresses belonging to one of the data link layer through the presentation layer defined by the OSI reference model, which represent routes to reach the mobile station. A transmitting route is determined by combining properly the mobile station identification address and the address representing a route.

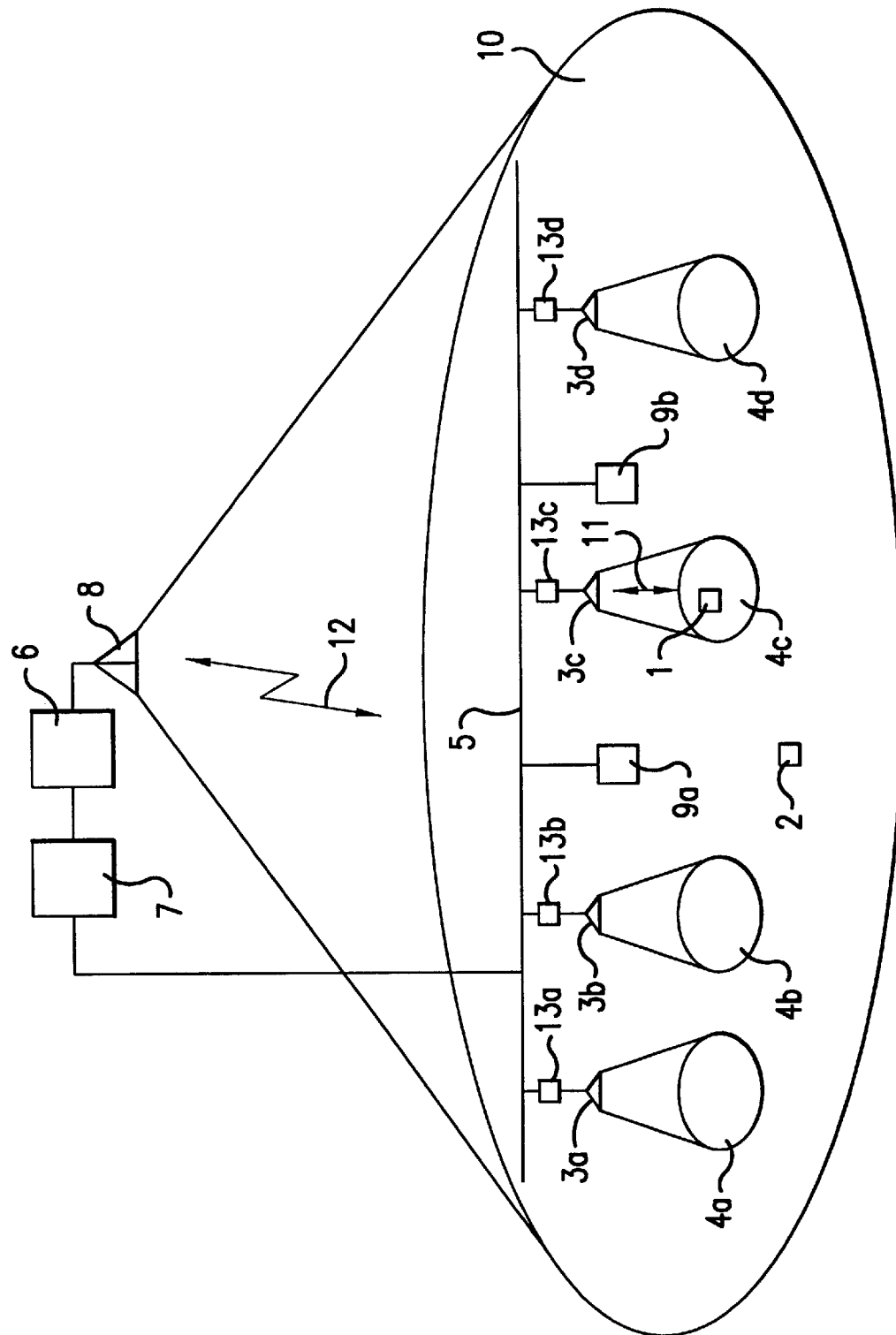


FIG. 1

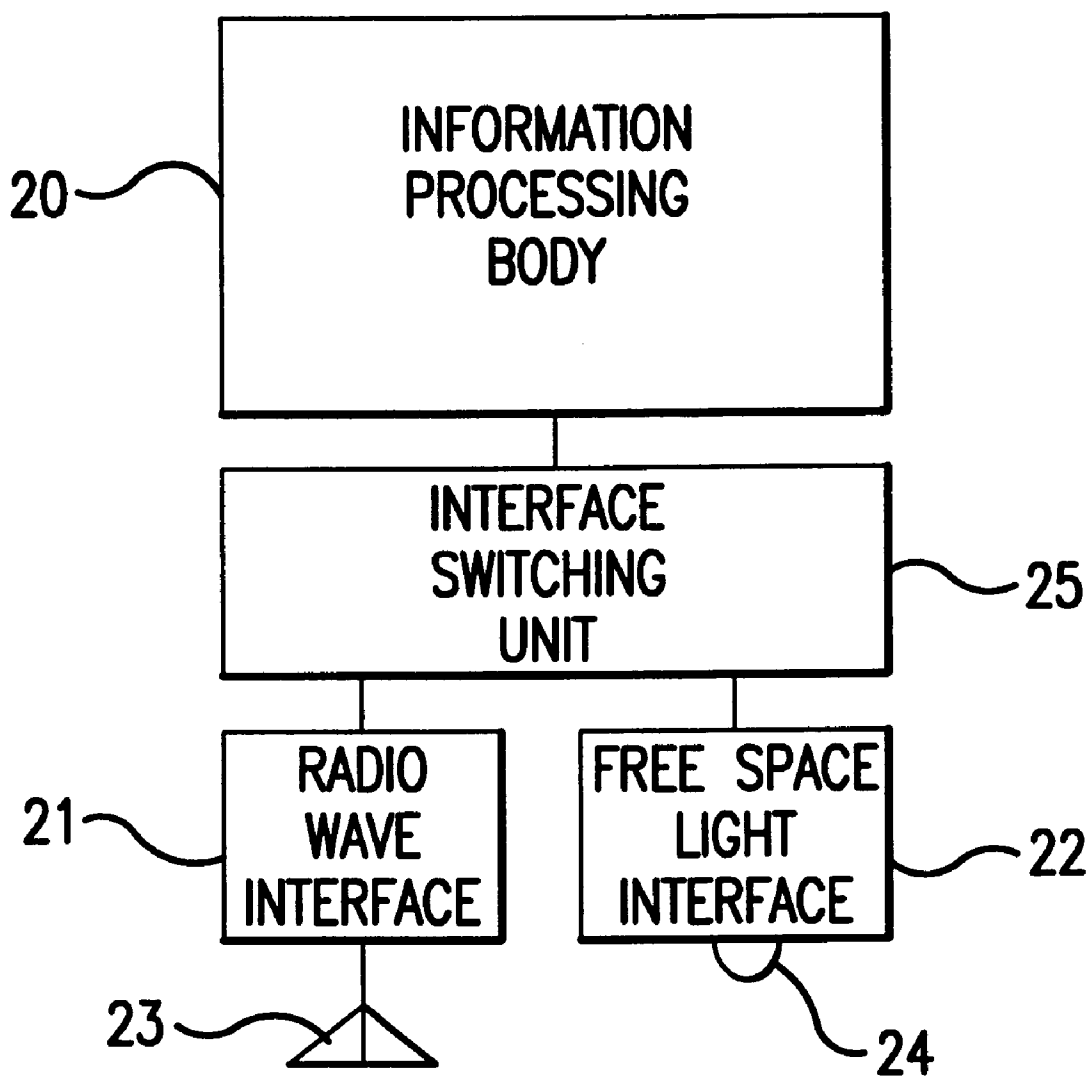


FIG.2

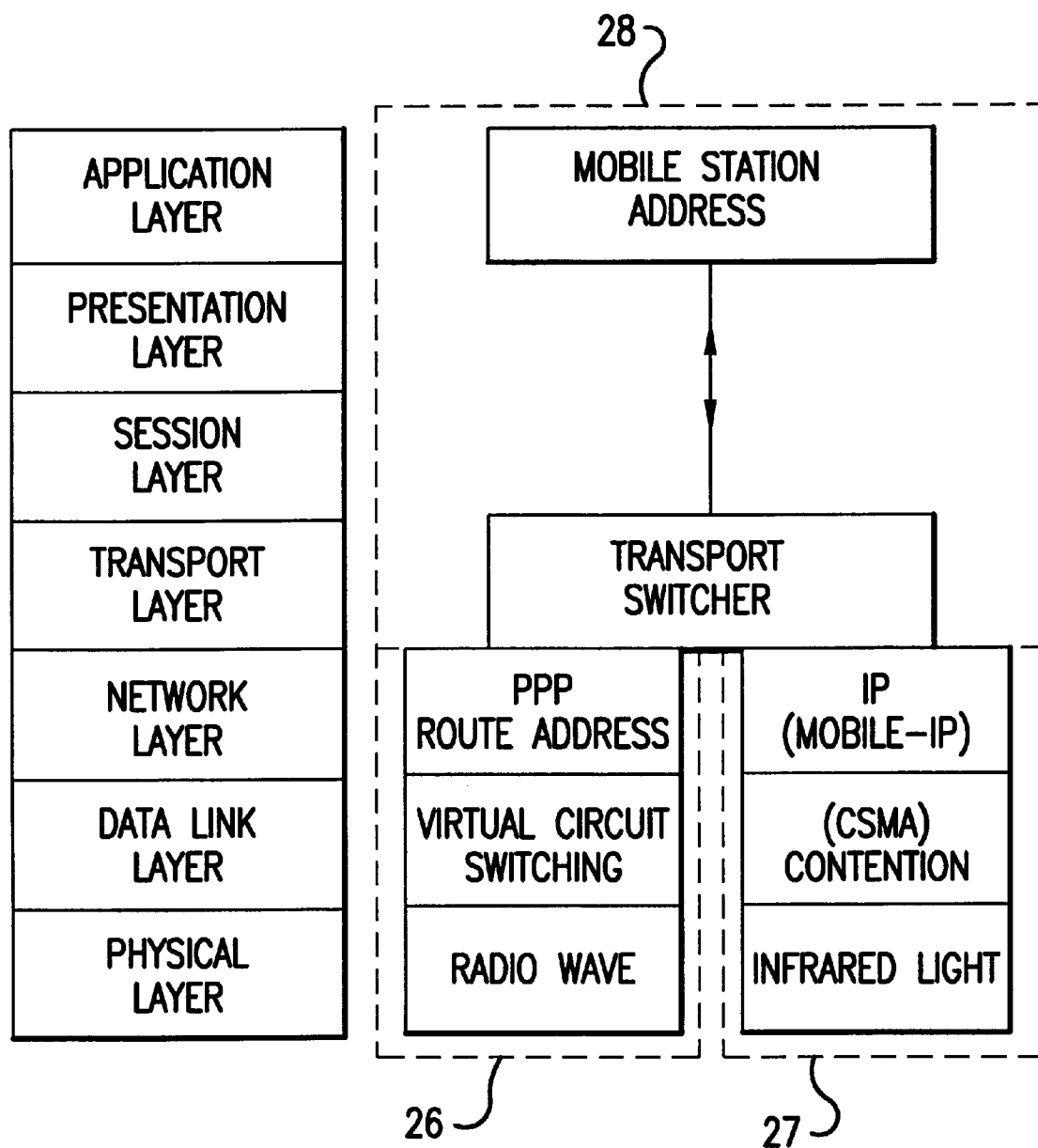


FIG.3





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