

## A B S T R A C T

REGISTRATION METHOD USED FOR REGISTERING AT LEAST ONE  
DUAL MODE MOBILE STATION (MMS) WITH AN ASSOCIATED PRIVATE  
5 BASE STATION (DBS).

The invention relates to a registration method used  
for registering at least one dual mode mobile station  
(MMS) with an associated private base station (DBS). The  
10 private base station is connected to the public telephone  
network (PSTN, ISDN) and uses, for transmission and  
reception, frequencies which are close to or identical to  
those used in a cellular radio system. The dual mode  
mobile station can operate either in "cordless" mode,  
15 used to communicate via said private base station, or in  
"cellular" mode, used to communicate via base stations  
(BTS) within the cellular radio system. Registration of  
the dual mode mobile station with the private base  
station constitutes a preliminary stage enabling the  
20 operation of the dual mode mobile station in "cordless"  
mode, whereby, following each incoming or outgoing call,  
a conversation can be established between the dual mode  
mobile station and other telephone equipment, via the  
private base station.

25 According to the invention, the registration method  
consists in interchanging signals in accordance with a  
preset protocol based on a preset frequency hopping law,  
determining the frequency over which each signal is to be  
transmitted, and on a preset uplink start-up frequency,  
30 over which the dual mode mobile station transmits the  
first signal. The frequency hopping law and the uplink  
start-up frequency being specific to, and known by, the  
dual mode mobile station and associated private base  
station.

35 Fig. 1

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