Title (en)
METHOD AND DEVICE FOR PRODUCING MOBILE RADIO SIGNALS

Title (de)
VERFAHREN UND EINRICHTUNG ZUM ERZEUGEN VON MOBILFUNKSIGNALEN

Title (fr)
PROCEDE ET DISPOSITIF POUR PRODUIRE DES SIGNAUX RADIO MOBILES

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Application
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Abstract (en)
[origin: WO03007478A2] The invention relates to a method for producing mobile radio signals using a DDS (12) (direct digital frequency synthesis) and a modulator (14), comprising the following steps: A) an intermediate frequency (fout-DDS) is produced by controlling the DDS (12) using a DDS control word (S) and a DDS clock pulse frequency (fclk-DDS), and B) the intermediate frequency (fout-DDS) is transformed into an emission frequency (fout-RF) of the mobile radio signals, using the modulator (14), according to a reference frequency (fref) of the modulator (14). According to the invention, the reference frequency (fref) of the modulator (14) is used as a DDS clock pulse frequency (fclk-DDS), said frequency being unmodified or divided by a division factor (N). In order to produce the intermediate frequency (fout-DDS), the DDS control word (S) is selected in such a way that it compensates fluctuations of the reference frequency (fref) of the modulator (14).

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