

Title (en)

OPEN-LOOP UP-LINK POWER CONTROL USING NOISE INJECTION RADIOMETRY

Title (de)

LEISTUNGSREGELUNG MIT OFFENER SCHLEIFE IN DER AUFWÄRTSVERBINDUNG MIT RAUSCHINJEKTIONS-RADIOMETRIE

Title (fr)

COMMANDE DE PUISSANCE EN LIAISON MONTANTE A BOUCLE OUVERTE AVEC RADIOMETRIE A INJECTION DE BRUITS

Publication

EP 1155512 A4 20040428 (EN)

Application

EP 00993671 A 20001201

Priority

- US 0030174 W 20001201
- US 47244299 A 19991227

Abstract (en)

[origin: WO0148940A1] A noise injection radiometer (410) operating at the down-link frequency is implemented to estimate fading present on the up-link signal. The up-link fade is then compensated for by increasing the power transmitted (250) by the earth station based on the up-link fade estimation (230). In addition, most of the radiometer circuitry is contained within a carefully controlled temperature environment (40) to compensate for temperature variation at the earth station receiver that can affect the accuracy of the determination of the fade estimation. According to an exemplary embodiment of the invention the noise injection radiometer (410) shares most of the RF electronics present at the earth station receiver and therefore can be implemented without significantly increasing the cost or complexity of the overall system.

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IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- No further relevant documents disclosed
- See references of WO 0148940A1

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