

Title (en)  
SYSTEM AND PROCESS FOR RETURN CHANNEL SPECTRUM MANAGER

Title (de)  
SYSTEM UND VERFAHREN FÜR DIE VERWALTUNG EINES RÜCKKANALSPEKTRUMS

Title (fr)  
SYSTEME ET PROCESSUS POUR GESTIONNAIRE DE SPECTRE A VOIE DE RETOUR

Publication  
**EP 1290819 A2 20030312 (EN)**

Application  
**EP 01933285 A 20010510**

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Abstract (en)  
[origin: WO0186856A2] The scanning receiver spectrum analyzer system is a system for monitoring the spectrum of RF energy on the upstream cable plant for the purpose of operating a group of cable modems in frequency bands that are the most interference-free. The spectrum analyzer surveys the entire upstream spectrum (typically 5 - 42 MHz) to determine the noise level at each frequency, and then weighing this data with current operating conditions (e.g. bit error rates) to determine the best possible alternative channel frequency for modems on an upstream node, and then waiting for a trigger condition to occur which indicates a need for the modems to change frequency.

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**H04L 1/00**; **H04B 1/00**

IPC 8 full level  
**H04H 60/97** (2008.01); **H04J 1/12** (2006.01); **H04L 1/00** (2006.01); **H04N 7/173** (2011.01)

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