

Title (en)

OPTICAL FIBER-BASED DISTRIBUTED RADIO FREQUENCY (RF) ANTENNA SYSTEMS SUPPORTING MULTIPLE-INPUT, MULTIPLE-OUTPUT (MIMO) CONFIGURATIONS, AND RELATED COMPONENTS AND METHODS

Title (de)

VERTEILTE HOCHFREQUENZ (HF)-GLASFASERANTENNENSYSTEME ZUR UNTERSTÜTZUNG VON MIMO-KONFIGURATIONEN SOWIE ZUGEHÖRIGE KOMPONENTEN UND VERFAHREN

Title (fr)

SYSTÈMES RÉPARTIS D'ANTENNES À RADIOFRÉQUENCES (RF) À BASE DE FIBRES OPTIQUES PRENANT EN CHARGE DES CONFIGURATIONS À ENTRÉES ET SORTIES MULTIPLES (MIMO), ET COMPOSANTS ET PROCÉDÉS APPARENTÉS

Publication

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Application

EP 11733965 A 20110708

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Abstract (en)

[origin: WO2013009283A1] Optical fiber-based distributed antenna systems that support multiple-input, multiple-output (MIMO) antenna configurations and communications. Embodiments disclosed herein include optical fiber-based distributed antenna system that can be flexibly configured to support or not support MIMO communications configurations. In one embodiment, first and second MIMO communication paths are shared on the same optical fiber using frequency conversion to avoid interference issues, wherein the second communication path is provide to a remote extension unit to remote antenna unit. In another embodiment, the optical fiber-based distributed antenna systems may be configured to allow to provide MIMO communication configurations with existing components. Existing capacity of system components are employed to create second communication paths for MIMO configurations, thereby reducing overall capacity, but allowing avoidance of frequency conversion components and remote extension units.

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