

Title (en)

DIRECT BROADCAST IMAGING SATELLITE SYSTEM APPARATUS AND METHOD FOR PROVIDING REAL-TIME, CONTINUOUS MONITORING OF EARTH FROM GEOSTATIONARY EARTH ORBIT AND RELATED SERVICES

Title (de)

SYSTEM, VORRICHTUNG UND VERFAHREN ZUR BILDAUFZEICHNUNG PER SATELLIT MIT DIREKTER ÜBERTRAGUNG ZUR BEREITSTELLUNG VON KONTINUIERLICHER ECHTZEIT-ÜBERWACHUNG DER ERDE VON EINER GEOSTATIONÄREN ERDUMLAUFBAHN AUS, UND VERWANDTE DIENSTE

Title (fr)

SYSTEME, DISPOSITIF ET PROCEDE DE DIFFUSION DIRECTE D'IMAGES PAR ATELLITE ASSURANT UNE SURVEILLANCE EN CONTINU ET EN TEMPS REEL DE LA TERRE A PARTIR D'UNE ORBITE TERRESTRE GEOSTATIONNAIRE ET SERVICES CORRESPONDANTS

Publication

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Application

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Abstract (en)

[origin: WO0105041A2] A system, method and apparatus for collecting and distributing real-time, high resolution images of the Earth from GEO include an electro-optical sensor based on multimegapixel two-dimensional charge coupled device (CCD) arrays mounted on a geostationary platform. At least four, three-axis stabilized satellites in Geostationary Earth orbit (GEO) provide worldwide coverage, excluding the poles. Image data that is collected at approximately 1 frame/sec, is broadcast over high-capacity communication links (roughly 15 MHz bandwidth) providing real-time global coverage of the Earth at sub-kilometer resolutions directly to end users. This data may be distributed globally from each satellite through a system of space and ground telecommunication links. Each satellite carries at least two electro-optical imaging systems that operate at visible wavelengths so as to provide uninterrupted views of the Earth's full disk and coverage at sub-kilometer spatial resolutions of most or selected portions of the Earth's surface.

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