Title: IPTV TRANSPORT ARCHITECTURE WITH DOUBLE LAYER ENCRYPTION AND BULK DECRYPTION

Abstract: IPTV-based systems offer acquisition and distribution of content from numerous channels with protected end-to-end conditional access. In adopting IPTV-based systems for seamless transport of the content to their subscribers’ set-top boxes, service providers would need a transport architecture that accommodates their existing infrastructure. In the spectrum of service providers some have no physical infrastructure at all and some have the entire suite of infrastructure and services. Therefore, the present invention provides a new transport architecture that can accommodate the spectrum of service providers, including tier-1, tier-2 and tier-3 service providers. For this purpose, the transport architecture includes double-layer encryption and bulk decryption.

FIG. 1

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INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

IPC: H04N 7/167 (2006.01)

USPC: 380/212

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 380/212, 200

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

PATENT GOOGLE, NPL SEARCHED

Electronic database consulted during the international search (name of database and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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Further documents are listed in the continuation of Box C.

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