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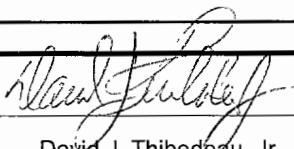
PROVISIONAL APPLICATION FOR PATENT COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 C.F.R. 1.53(c)

Express Mail Label Number EL552571109US

Docket Number 2657.2008-000

11/28/00
1c962 U.S. PTO

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<input checked="" type="checkbox"/> Additional inventors are being named on the separately numbered sheet(s) attached hereto					
TITLE OF THE INVENTION (280 characters max)					
PROMOTION SERVER USING VIDEO ON DEMAND CHANNEL					
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ENCLOSED APPLICATION PARTS (check all that apply)					
<input checked="" type="checkbox"/> Specification Number of Pages [14] [] Other (specify) _____					
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METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT (check one)					
<input checked="" type="checkbox"/> A check or money order is enclosed to cover the filing fees					FILING FEE AMOUNT (\$)
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The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.					
<input checked="" type="checkbox"/> No					
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Signature				Date	November 28, 2000
Submitted by Typed or Printed Name		David J. Thibodeau, Jr.		Reg. Number	31,671

1c960 U.S. PTO
60/253350
11/28/00

Rev. August 4, 1999

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Date: 11/28/00 Express Mail Label No. EL552571109 US

Inventor(s): Chaitanya Kanojia, Terri Swartz, Darren Wetzel, and
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Attorney's Docket No.: 2657.2008-000

PROMOTION SERVER USING VIDEO ON DEMAND CHANNEL

BACKGROUND OF THE INVENTION

This invention relates generally to broadcast systems such as cable television networks and more particularly to a technique for coordinating the insertion of specific video content, including targeted commercial or other promotional video content, over idle video-on-demand channels.

For many years it has been realized that cable television (CATV) systems provide numerous advantages as compared to over-the-air broadcast systems. First, these cable systems were valued for their ability to provide for reception of signals in remote rural locations, or where radio signals may be blocked, such as in dense high rise apartment buildings. Later, it was realized that by incorporating long distance communications equipment, such as orbital satellite transponder equipment, centralized distribution networks could be built that not only could route local channels more reliably, but also distribute program content on a nation-wide basis. This gave rise to broadcast program content which is available strictly for the cable television subscriber,

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and the now widely familiar movie, news, weather, music, childrens, sports, family and other program-gendre-specific cable channels.

The present trend is towards a model where the reception devices in the home will include embedded computer systems designed for a particular function or purpose. Today, for example, set-top boxes typically have limited data communication capabilities. The main function of these devices is to handle channel access between residential users and a head end or server on the cable TV network. For example, these systems are typically deployed to offer certain types of premium services, such as video-on-demand. This service allows a viewer to use a menu system to select from a variety of typically pre-recorded premium programs that may be available, such as movies or sporting events. The selected program content is then immediately delivered to the viewer over channels dedicated to delivery of the video-on-demand content.

In the future, the functionality offered by these set-top boxes or other embedded platforms will be expanded even further. For example, they may offer Internet browsing capabilities and e-commerce serving capabilities. Moreover, it is anticipated that common-household appliances will also have computer network functionality, in which case the set-top boxes may be used to remotely control and automate various tasks in the home.

Indeed, millions of digital set-top boxes have already been deployed in the United States. It is estimated that the worldwide market for Internet appliances such as digital set-top boxes and other Internet-connected terminals will reach \$17.8 billion in 2004 . Increasingly, advertisers and content providers therefore view the cable set-top as the first platform of choice for widespread delivery of a suite of intelligent content management and distribution services.

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SUMMARY OF THE INVENTION

5 The present invention is a system for delivery of targeted content such as promotional video content to a cable television viewer, where the specific content is under control of the a central operator and the viewer is not necessarily aware of the targeted nature of the content.

10 Consider that the digital set-top box provides interesting functionalities, including the ability to collect data such as a log of the channels watched over time. The set top box can thus be designed to report this information to a central location. At the central location, this data can be aggregated for many hundreds of thousands of users. This information, when coupled with other information, such as viewer demographics, can then be used by advertisers to blanket defined market segments with promotional content. The delivery of promotions to specific target segments can thus allow for impulse responses yielding immediate increases in product revenues.

15 However, a nationwide cable television network may have hundreds of thousands, if not millions of set-top boxes, each tuned to a different channel. An efficient scheme for routing the targeted content to specific set-top boxes is therefore not as straightforward as it might appear at first glance.

20 Some have proposed systems in which the targeted content is digitized and sent to the set-top boxes in compressed form, well prior to its display. However, even a single promotion may require several hundred megabytes of storage. These techniques therefore require each set-top box to have a fairly large storage capacity, the cost of which might be prohibitive. And if such a distribution network were built using strictly standard data network protocols such as TCP/IP, the sheer number of require connections could overload a central data servers and routers.

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