

05-18-01

PROVISIONAL APPLICATION FOR PATENT COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c). A/1050

Docket Number 2001-0259

INVENTOR(S)

Name (line 1)	Gibbon, David C.
Address (line 1)	107 Majestic South
Address (line 2)	Lincroft
Address (line 3)	Monmouth County
Address (line 4)	New Jersey
Address (line 5)	USA
Zip Code	07738

Additional inventors are being named on the 1 separately numbered sheets attached hereto

TITLE OF THE INVENTION (180 characters max)

Method For Content-Based Non-Linear Control Of Multimedia Playback

CORRESPONDENCE ADDRESS

Customer Number or Bar Code Label

(Insert Customer No. or Attach bar code label here)

or Correspondence address below

NAME	Samuel H. Dworetzky		
ADDRESS	AT&T CORP. P.O. Box 4110		
CITY	Middletown	STATE	New Jersey
		ZIP CODE	07748-4110
COUNTRY	United States of America	FAX	732-368-6932

ENCLOSED APPLICATION PARTS (check all that apply)

Specification Number of Pages 5
 Small Entity Statement
 Other (specify)

Drawing(s) Number of Sheets 6
 Return Receipt Postcard (MPEP 503)

METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT (check one)

The Commissioner is hereby authorized to charge filing fees or credit any overpayment to Deposit Account Number: 01-2745

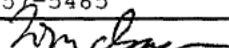
Filing Fee Amount (\$): \$150.00

The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

No.

Yes, the name of the U.S. Government agency and the Government contract number are :

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

NAME	Thomas M. Isaacson	Reg. #	44166
TELEPHONE	410-257-5485		
SIGNATURE		DATE	5/14/2001

"Express Mail" Mailing Label Number EL580484388US

Date of Deposit 5/14/01

I hereby certify that this provisional application is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Assistant Commissioner of Patents, Washington D.C., 20231

Shaw McGeer
(Printed Name of Person Mailing Paper)


(Signature of Person Mailing Paper)

SEND TO: Box Provisional Application, Assistant Commissioner for Patents, Washington, DC 20231.

PROVISIONAL APPLICATION COVER SHEET

Additional Page

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 1c928 U.S. PTO

Docket Number	2001-0259
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INVENTOR

Name (line 1)	Shahraray, Behzad
Address (line 1)	194 Sherwood Drive
Address (line 2)	Freehold
Address (line 3)	Monmouth County
Address (line 4)	New Jersey
Address (line 5)	USA
Zip Code	07728

INVENTOR

Name (line 1)	Chen, Edward Y.
Address (line 1)	8 Cambridge Road
Address (line 2)	Holmdel
Address (line 3)	Monmouth County
Address (line 4)	New Jersey
Address (line 5)	USA
Zip Code	07733

INVENTOR

Name (line 1)	Ruedisueli, Laurence W.
Address (line 1)	33 Dell Lane
Address (line 2)	Berkeley Heights
Address (line 3)	Union
Address (line 4)	New Jersey
Address (line 5)	USA
Zip Code	07922

INVENTOR

Name (line 1)	
Address (line 1)	
Address (line 2)	
Address (line 3)	
Address (line 4)	
Address (line 5)	
Zip Code	

INVENTOR

Name (line 1)	
Address (line 1)	
Address (line 2)	
Address (line 3)	
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FEE TRANSMITTAL <small>Patent Fees are subject to annual revision.</small>		Complete if Known																																																																																																																	
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1. The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to: Deposit Account Number 01-2745 Deposit Account Name AT&T CORP. <input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17 <input type="checkbox"/> Charge the Issue Fee Set in 37 CFR 1.18 at the Mailing Date of the Notice of Allowance		3. ADDITIONAL FEES <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Large Fee Code</th> <th style="width: 10%;">Entity Fee(\$)</th> <th style="width: 60%;">Fee Description</th> <th style="width: 20%;">Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>127</td><td>50</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>139</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>147</td><td>2520</td><td>For filing a request for reexamination</td><td></td></tr> <tr><td>112*</td><td>920</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113*</td><td>1840</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115</td><td>110</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>116</td><td>390</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>117</td><td>890</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>118</td><td>1390</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>128</td><td>1890</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>119</td><td>310</td><td>Notice of Appeal</td><td></td></tr> <tr><td>120</td><td>310</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121</td><td>270</td><td>Request for oral hearing</td><td></td></tr> <tr><td>138</td><td>1510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140</td><td>110</td><td>Petition to revive - unavoidable</td><td></td></tr> <tr><td>141</td><td>1240</td><td>Petition to revive - unintentional</td><td></td></tr> <tr><td>142</td><td>1240</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>143</td><td>440</td><td>Design issue fee</td><td></td></tr> <tr><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>123</td><td>50</td><td>Petitions related to provisional applications</td><td></td></tr> <tr><td>126</td><td>240</td><td>Submission of Information Disclosure Statement</td><td></td></tr> <tr><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>146</td><td>710</td><td>Filing a submission after final rejection(37 CFR 1.129(a))</td><td></td></tr> <tr><td>149</td><td>710</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr> <tr><td></td><td></td><td>Other fee (specify)</td><td></td></tr> <tr><td></td><td></td><td>Other fee (specify)</td><td></td></tr> </tbody> </table>		Large Fee Code	Entity Fee(\$)	Fee Description	Fee Paid	105	130	Surcharge - late filing fee or oath		127	50	Surcharge - late provisional filing fee or cover sheet		139	130	Non-English specification		147	2520	For filing a request for reexamination		112*	920	Requesting publication of SIR prior to Examiner action		113*	1840	Requesting publication of SIR after Examiner action		115	110	Extension for reply within first month		116	390	Extension for reply within second month		117	890	Extension for reply within third month		118	1390	Extension for reply within fourth month		128	1890	Extension for reply within fifth month		119	310	Notice of Appeal		120	310	Filing a brief in support of an appeal		121	270	Request for oral hearing		138	1510	Petition to institute a public use proceeding		140	110	Petition to revive - unavoidable		141	1240	Petition to revive - unintentional		142	1240	Utility issue fee (or reissue)		143	440	Design issue fee		122	130	Petitions to the Commissioner		123	50	Petitions related to provisional applications		126	240	Submission of Information Disclosure Statement		581	40	Recording each patent assignment per property (times number of properties)		146	710	Filing a submission after final rejection(37 CFR 1.129(a))		149	710	For each additional invention to be examined (37 CFR 1.129(b))				Other fee (specify)				Other fee (specify)	
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Typed or Printed Name	Thomas M. Isaacson	Reg. Number	44166																																																																																																																

PATENT REVIEW - REQUEST FOR OPINION OF COUNSEL

Name: David C. Gibbon
Date: 04/18/01
Social Security Number: 145-58-1984
Telephone Number: 732 420 9127
E-mail Address: dcg@research.att.com
Organization: HA1570000
AT&T Business Unit: ALRES
Location: RM A5-4F02, Middletown, NJ

Please answer the following questions as completely as possible.

1. **SUBJECT** (Title of your Idea)

Method for content-based non-linear control of multimedia playback.

2. **OBJECTIVE** (What problem does the proposal solve or what purpose does it serve?)

The method provides an intelligent and efficient means for users to easily find and navigate high quality video material, using another (preferably small, portable) device (e.g. a PDA), and based on detailed program-specific index.

3. **BRIEF DESCRIPTION** (1. What is it? 2. How does it operate? 3. Is there a date involved, e.g. introduction or announcement of a service or product?)

1. It can be thought of as the next generation of interactive television remote control that enables the searching and browsing of video and multimedia content archives. The remote control can be similar to today's high-end PDA devices, which are able of displaying dynamic content including graphic images. It is assumed that the remote control communicates with a multimedia database which includes not only metadata such as program title etc., but also detailed content-specific index data that are extracted from the content either by automatic media processing techniques (e.g., video indexing, audio indexing), or manually by a human.
2. See attached disclosure for details.
3. Our current negotiations with potential technology licensees for our multimedia indexing technology has confirmed a market for such a method. We would like to include this submission as part of the package of technologies to be licensed.

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4. **COMPARISON** (1. What is the known prior art (e.g. past publications or products), if any? 2. What are the differences over the prior art? 3. What commercial benefits are derived from these differences?)
 1. Multimedia indexing systems that support searching and browsing of video using a single device such as a desktop computer and displaying condensed versions of video programs on portable devices is covered by: "Second Supplemental Preliminary Amendment Method for Providing a Compressed Rendition of a Video Program in a Format Suitable for Electronic Searching and Retrieval," docket # 109579 C. Dynamic bitmapped displays in remote controls for home entertainment systems are known. Using a PDA as a remote by displaying control keys (similar to the mechanical keys on today's remote controls, and the dynamic bitmaps on remote controls) on the touch-sensitive screen is known.
 2. Unlike the existing methods that either simulate the physical media control keys on the touch-sensitive screen, or display metadata, such as the title of the movie or name of a song, the proposed method is based on the display of detailed content-specific information from the content. Unlike existing systems that display information related to the content on the same display, the new method employs two separate devices and uses each to its maximum advantage.
 3. The method enables the creation of more user-friendly network-based video-on-demand entertainment and information services. It also has commercial applications to self-contained home entertainment systems.
5. **USE** (1. What is the probability of commercial use? By AT&T? By Others? 2. Is it scheduled for use in an AT&T Product or service? 3. Which one, and when? 4. Is this idea likely to be adopted by others? If so, to what extent? Why? 5. Is it likely to become a standard? 6. Do you see applications for the idea other than the one described above?)
 1. There is a high probability of commercial use of this technology given the trends to lower device cost and increasing availability of wireless IP networks and broadband IP to the home. Any cable TV service provider, including AT&T can make use of this service.
 2. Not currently.
 3. Not applicable.
 4. Yes. AT&T Broadband does not operate in every geographic market, so it is likely that other cable companies will adopt this method. The invention also has applications in home networking environments for controlling the replay of video and multimedia content stored at the customer premises or at a remote location.
 5. No, but the method makes use of existing and emerging standards such as XML, HTML, MPEG-2, MPEG-7.
 6. Yes, e.g., pay-per-view video services on-the-go (e.g., airports) where the user uses a personal remote (e.g., PDA) to find/select video or multimedia content to be delivered on a separate device (e.g., a network-connected video monitor at the airport).

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