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| PATENT ASSIGNMENT COVER SHEET |
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Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7195175

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| METATV, INC. | 06/17/2005 |
| RECEIVING PARTY DATA | |
| Name: | DOUBLE C TECHNOLOGIES, L.L.C. |
| Street Address: | 1701 JFK BOULEVARD |
| City: | PHILADELPHIA |
| State/Country: | PENNSYLVANIA |
| Postal Code: | 19103 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 17357001 |
| CORRESPONDENCE DATA | |
| Fax Number: | |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> | |
| Email: | smehr@bannerwitcoff.com, bwptopat@bannerwitcoff.com |
| Correspondent Name: | BANNER & WITCOFF, LTD |
| Address Line 1: | 1100 13TH ST NW |
| Address Line 2: | SUITE 1200 |
| Address Line 4: | WASHINGTON, D.C. 20005 |
| ATTORNEY DOCKET NUMBER: | 007412.05398\US |
| NAME OF SUBMITTER: | HENGYI JIANG |
| SIGNATURE: | /Hengyi Jiang/ |
| DATE SIGNED: | 02/25/2022 |
| Total Attachments: 10 | |
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**ASSIGNMENT OF LETTERS PATENT
AND APPLICATIONS FOR LETTERS PATENT**

THIS ASSIGNMENT OF LETTERS PATENT AND APPLICATIONS FOR LETTERS PATENT (this "Assignment") is made this 17th day of June, 2005, by MetaTV, Inc. a Delaware corporation ("Seller").

WITNESSETH:

WHEREAS, Seller is the sole owner by assignment of the entire right, title and interest in, to and under the national and multinational statutory invention registrations, patents and patent applications listed in Schedule A (including all reissues, divisions, continuations, continuations-in-part, extensions and reexaminations thereof) registered or applied for in the United States and all other nations throughout the world; all improvements to the inventions disclosed in each such registration, patent or patent application; all rights in all of the foregoing provided by treaties, conventions and common law and all rights to sue or recover and retain damages and costs and attorneys' fees for past, present and future infringement or misappropriation of any of the foregoing (collectively, the "Patents");

WHEREAS, Double C Technologies, L.L.C., a Delaware limited liability company ("Buyer") is desirous of acquiring the entire worldwide right, title and interest in, to and under the Patents.

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and pursuant to the Asset Purchase Agreement dated as of June 17, 2005 (the "Agreement") between Seller and Buyer, the parties, intending to be legally bound, agree as follows:

1. Seller represents and warrants that it is the sole and exclusive owner of the Patents; none of the Patents have been held or adjudicated invalid or cancelled nor is it subject to any lien, security interest or other encumbrances; except as set forth in the Agreement between Seller and Buyer, no action, suit, proceeding or challenge is pending, or to Seller's knowledge, threatened with respect to any of the Patents; and there are no fees or any similar actions or filings due within ninety (90) days of the Closing Date (as defined in the Agreement) that could affect the validity of or title in or to any of the Patents.

2. Seller has sold, assigned and transferred, and does hereby sell, assign and transfer unto the Buyer, the entire right, title and interest in and to the Patents and all letters patents in all countries of the world based thereon or corresponding thereto, and all divisional, continuing, continuation-in-part, and reissue applications therefor, and the patents which may be thereupon issued, including any and all rights to file applications and receive patents in all countries of the world, the same to be held and enjoyed by the Buyer to the full end of the term for which said letters patent may be granted, as fully and entirely as the same would have been held and enjoyed by Seller had this assignment and sale not been made; and Seller hereby agrees to sign all necessary papers and do all lawful acts reasonably requisite in connection with the prosecution, assignment, enforcement and disclaimer of each and every patent application based upon the Patents, without further compensation, but at the expense of the Buyer or its successors and assigns, and Seller assigns to the Buyer all rights to sue for infringement, including past infringement if any, of any patent or patents based upon or corresponding to the Patents.

3. Seller agrees that, upon request it will, at any time without charging a fee to Buyer but at Buyer's expense for any reasonable costs incurred, furnish all necessary documentation relating to or supporting chain of title and to confirm Buyer's ownership of all right, title, and interest in and to the Patents, provide testimony at any time in connection with any proceedings affecting the right, title, interest or benefit of Buyer in, to or under the Patents and sign and deliver all papers, take all rightful oaths, and do all acts which may be reasonably necessary for vesting title to the Patents in Buyer, its successors, assigns and legal representatives or nominees. In the event Seller fails to execute such documentation after a reasonable amount of time, Seller hereby appoints Buyer with full and complete authority and power of attorney to act in the stead of Seller and to execute and record as its attorney-in-fact such transfer documentation.

4. Seller does hereby authorize and request the officials of all countries in which patents relating to the Patents are now or in the future will be issued to issue to the Buyer all of Seller's entire right, title and interest in and to the same for the sole use and enjoyment of the Buyer, its successors and assigns.

5. Nothing herein shall affect, or be deemed to affect, the representations, warranties, covenants, and indemnities contained in the Agreement.

IN WITNESS WHEREOF, Seller has caused this Assignment to be executed.

MetaTV, Inc.

By: JK
Name: J. K. Kelly
Title: President

[SIGNATURE PAGE TO PATENT ASSIGNMENT]

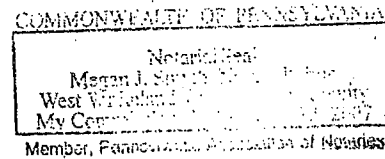
STATE OF PA
COUNTY OF Chester ss.:

BEFORE ME, the undersigned authority, a Notary Public in and for said County and State, on this day personally appeared Irving B. Kalick, the President and Chief Executive Officer of MetaTV, Inc., known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that the same was the act of such Corporation, and that he executed the same for and as the act of such Corporation for the purposes and consideration therein expressed and in the capacity therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 16 day
of June 2005.

Megan J. Smyth
Name:
Notary Public

Megan J. Smyth



SCHEDULE A

| MetaTV Internal Reference Number | Application Number | Filing Date | Title | Inventors | Priority claim |
|----------------------------------|--------------------|-------------|---|---|----------------------------------|
| P001 | 09/841,017 | 04/24/2001 | METHOD AND SYSTEM FOR TRANSFORMING CONTENT FOR EXECUTION ON MULTIPLE PLATFORMS | - Ranjit Sahota - John Carney - David de Andrade - Mark Knowles | 04/24/2000 (US 60/199,686) |
| P002 | 09/841,149 | 04/23/2001 | METHOD AND SYSTEM FOR INTEGRATING INTERNET ADVERTISING WITH TELEVISION COMMERCIALS | - Ranjit Sahota | 04/24/2000 (US 60/199,686) |
| P003 | 09/841,423 | 04/23/2001 | METHOD AND SYSTEM FOR PERSONALIZATION AND AUTHORIZATION OF INTERACTIVE TELEVISION CONTENT | - John Carney - Ranjit Sahota | 04/24/2000 (US 60/199,686) |
| P004 | 09/841,018 | 04/23/2001 | METHOD AND SYSTEM TO PROVIDE INTERACTIVITY USING AN INTERACTIVE CHANNEL BUG | - Ranjit Sahota - John Carney | 04/24/2000 (US 60/199,686) |
| P005 | 09/841,644 | 04/23/2001 | METHOD AND SYSTEM FOR AUTOMATIC INSERTION OF INTERACTIVE TV TRIGGERS INTO A BROADCAST DATA STREAM | - David de Andrade - Ranjit Sahota | 04/24/2000 (US 60/199,686) |
| P006 | 10/247,901 | 09/19/2002 | INTERACTIVE USER INTERFACE FOR TELEVISION APPLICATIONS | - Lena Chane - Matt Marengi - Ty Ahmad- Taylor - Alex Chung - Prakash Hegde - Samuel Moreau - Darrell Haber | 09/19/2001 (US 60/323,658) |

(NY) 05726/231/AGT/ip.assign.doublec.doc

| MetaTV Internal Reference Number | Application Number | Filing Date | Title | Inventors | Priority claim |
|----------------------------------|--------------------|-------------|---|--|---|
| P007 | 10/306,752 | 11/27/2002 | BROADCAST DATABASE | - Lena Chane - David Brandyberry - Alex Chung - Ali Crakes - Sithampara Babu Niranjan - Viva Chu | 11/27/2001 (US 60/333,961) and 01/30/2002 (US 60/353,799) |
| P008 | Not filed | | | | |
| P009 | Not filed | | | | |
| P010 | 10/390,064 | 03/14/2003 | SYSTEM AND METHOD FOR CONSTRUCTION, DELIVERY AND DISPLAY OF ITV CONTENT | - John Carney - David de Andrade - Sithampara Babu Niranjan - David Brandyberry - Leon Franzen - Lena Chane - Matt Marengi - Prakash Hegde - Alex Chung - Viva Chu - Greg Thompson - Ruth Dawson | 03/15/2002 (US 60/364,532) and 03/15/2002 (US 60/364,545) |
| P010x | 10/630,815 | 07/29/2003 | SYSTEM AND METHOD FOR CONSTRUCTION, DELIVERY AND DISPLAY OF ITV CONTENT | - John Carney - David de Andrade - Sithampara Babu Niranjan - David Brandyberry - Leon Franzen - Lena Chane - Matt Marengi - Prakash Hegde - Alex Chung - Viva Chu - Greg Thompson - Ruth Dawson | 03/14/2003 (US 10/390,064) |
| P010x2 | 10/933,845 | 09/02/2004 | SYSTEM AND METHOD FOR PREFERRED PLACEMENT PROGRAMING OF ITV CONTENT | - David de Andrade - John Carney - Samuel Moreau - Tyson Singer - Srikanth Ganapavarapu | 09/02/2003 (US 60/499,793) |
| P011 | 10/409,910 | 04/08/2003 | EXTENSIONS TO SEMANTIC NET | - Evan Painter | 04/08/2002 (US 60/370,964) |

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|----------------------------------|--------------------|-------------|---|--|-------------------------------|
| P012 | 10/410,023 | 04/08/2003 | NEWS ARCHITECTURE FOR ITV | - Ed Miner - Maikhanh T. Nguyen - Mark Knowles - Alison Crakes-Franzen | 04/10/2002 (US 60/371,747) |
| P013 | 10/358,494 | 02/4/2003 | SYSTEM AND METHOD TO TRANSCODE AND PLAYBACK DIGITAL VERSATILE DISC (DVD) CONTENT AND OTHER RELATED APPLICATIONS | - Sithampara Babu Niranjan - John Carney - David de Andrade | 9/9/2002 (US 60/409,402) |
| P014 | Not filed | | | | |
| P015 | Not filed | | | | |
| P016 | 10/460,950 | 06/12/2003 | GRAPHICALLY RICH, MODULAR, PROMOTIONAL TILE INTERFACE FOR INTERACTIVE TELEVISION | - Samuel Moreau - Darrell Haber - Kathryn Jaroneski - Christine Hirsch - Georgia Gibbs | 06/12/2002 (US60/388,493) |
| P017 | 10/618,210 | 07/11/2003 | PROGRAMMING CONTEXTUAL INTERACTIVE USER INTERFACE FOR TELEVISION | - Lena Chane - Samuel Moreau - Darrell Haber - Matt Marengi | 07/11/2002 (US 60/395,277) |
| P018 | 10/635,799 | 08/05/2003 | USER CUSTOMIZATION OF USER INTERFACES FOR INTERACTIVE TELEVISION | - John Carney - David de Andrade - Viva Chu - Samuel Moreau | 08/06/2002 (US 60/401,523) |
| P019 | Not filed | | | | |
| P020 | 10/672,983 | 09/25/2003 | SYSTEM AND METHOD FOR CONTROLLING ITV APPLICATION BEHAVIORS THROUGH THE USE OF APPLICATION PROFILE FILTERS | - John Carney - David de Andrade | 07/11/2003 (US 60/486,568) |

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|----------------------------------|--------------------|-------------|--|---|----------------------------------|
| P021 | 10/664,275 | 09/16/2003 | SYSTEM AND METHOD FOR CONSTRUCTION, DELIVERY AND DISPLAY OF ITV APPLICATIONS THAT BLEND PROGRAMMING INFORMATION OF ON-DEMAND BROADCAST SERVICE OFFERINGS | - Samuel Moreau - Don Ahrens - Georgia Gibbs - John Carney - David de Andrade | 07/11/2003 (US 60/486,567) |
| P022 | 10/727,793 | 12/03/2003 | SYSTEM AND METHOD FOR CREATING AND PRESENTING COMPOSITE VIDEO-ON-DEMAND CONTENT | - John Carney - Greg Thompson - David de Andrade - Matt Marengi - Samuel Moreau - Elliot Poger | 07/11/2003 (US 60/486,569) |
| P023 | 10/763,580 | 01/23/2004 | SYSTEM AND METHOD FOR AUTOMATICALLY GENERATING A COMPOSITE VIDEO-ON-DEMAND CONTENT | - John Carney - Greg Thompson - David de Andrade - Matt Marengi - Samuel Moreau | 07/11/2003 (US 60/486,570) |
| P024 | 10/894,740 | 07/19/2004 | CHANNEL FAMILY SURF CONTROL | - Samuel Moreau - Don Ahrens - Georgia Gibbs - John Carney - David de Andrade | 07/18/2003 (US 60/488,560) |
| P025 | 10/797,997 | 03/10/2004 | PARENTAL CONTROL SYSTEM AND METHOD | - Samuel Moreau - John Carney - David de Andrade | 12/23/2003 (US 60/532,829) |
| P026 | 10/925,737 | 8/24/2004 | CONTEXTUAL NAVIGATIONAL CONTROL FOR DIGITAL TELEVISION | - Sam Moreau - John Carney | 3/11/2004 (US 60/552998) |

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| MetaTV Internal Reference Number | Application Number | Filing Date | Title | Inventors | Priority claim |
|----------------------------------|--|---------------------------|---|--|----------------|
| P027Z/ P029Z | 27Z is 60/628,423 29Z is 60/643,085 | 11/15/2004 1/10/05 | OPTIMIZED APPLICATION ON-THE-WIRE FORMAT FOR CONSTRUCTION, DELIVERY AND DISPLAY OF ITV CONTENT | - David Brandyberry - John Carney - David de Andrade - Matt Marengi - Glenn Adams - Connie Mace - Elliot Poger | |
| P028Z | 60/630,510 | 11/17/2004 | METHOD AND SYSTEM FOR DELIVERING ENHANCED TV CONTENT | - John Carney - David de Andrade - Greg Thompson - David Brandyberry - Matt Marengi | |
| P030Z (Provisional) | Not received | 5/3/2005 | Schema for OPTIMIZED APPLICATION ON-THE-WIRE FORMAT FOR CONSTRUCTION, DELIVERY AND DISPLAY OF ITV CONTENT | - Glenn Adams | |

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