

## PATENT ASSIGNMENT

Electronic Version v1.1  
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MetaTV, Inc.	06/16/2005
RECEIVING PARTY DATA	
Name:	Double C Technologies, L.L.C.
Street Address:	1701 JFK Blvd
City:	Philadelphia
State/Country:	PENNSYLVANIA
Postal Code:	19103
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13618655
CORRESPONDENCE DATA	
Fax Number:	3124635001
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	312-463-5000
Email:	gbekin@bannerwitcoff.com, bwptopat@bannerwitcoff.com
Correspondent Name:	Surendra K. Ravula
Address Line 1:	10 South Wacker Drive, Suite 3000
Address Line 2:	Banner & Witcoff, Ltd.
Address Line 4:	Chicago, ILLINOIS 60606
ATTORNEY DOCKET NUMBER:	007412.02250 SKR/GB
NAME OF SUBMITTER:	Surendra K. Ravula
Signature:	/Surendra K. Ravula/
Date:	07/26/2013
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 17<sup>th</sup> 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:           I. Kall            
Name: I. Kall  
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.

Name: Megan J. Smyth  
Notary Public  
Megan J. Smyth

COMMONWEALTH OF PENNSYLVANIA  
Notary Seal  
Megan J. Smyth, Notary Public  
West Chester, Delaware County  
My Comm. Expires 12/31/2007  
Member, Pennsylvania Association of Notaries

## 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)



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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MetaTV Internal Reference Number	Application Number	Filing Date	Title	Inventors	Priority claim
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)

MetaTV Internal Reference Number	Application Number	Filing Date	Title	Inventors	Priority claim
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)

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

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 Marenghi - 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 Marenghi	
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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