

## PATENT ASSIGNMENT

Electronic Version v1.1  
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SILVERBROOK RESEARCH PTY. LIMITED	05/03/2012
RECEIVING PARTY DATA	
Name:	ZAMTEC LIMITED
Street Address:	8 Fitzwilliam Square
City:	Dublin 2
State/Country:	IRELAND
PROPERTY NUMBERS Total: 21	
Property Type	Number
Patent Number:	7784915
Patent Number:	7804292
Patent Number:	7805832
Patent Number:	7877876
Patent Number:	7984640
Patent Number:	7987699
Patent Number:	8006967
Patent Number:	8092625
Patent Number:	7588693
Patent Number:	7140723
Patent Number:	6540319
Patent Number:	6629745
Patent Number:	6733104
Application Number:	12557525
Application Number:	13099352
Application Number:	12242326

CH \$840.00 7784915

Application Number:	12905024
Application Number:	12837418
Application Number:	61537063
Application Number:	13469089
Application Number:	61485600

#### CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	313617-2001
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NAME OF SUBMITTER:	Kevin J. Zimmer
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#### Total Attachments: 7

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## SECOND CONFIRMATORY ASSIGNMENT OF PATENT RIGHTS

WHEREAS, Silverbrook Research Pty. Limited, having a principal place of business at 393 Darling Street, Balmain NSW 2041, Australia, the Memjet Companies, and others have entered into that certain agreement dated 3 May 2012 (the "Agreement") respecting the "Memjet IP Rights" as described in said Agreement;

WHEREAS, Zamtec Limited (the "Assignee"), having a principal place of business at 8 Fitzwilliam Square, Dublin 2, Ireland, is one of the Memjet Companies;

WHEREAS, pursuant to the Agreement, Silverbrook Research Pty. Limited and its Affiliates (as defined in the Agreement) (the "Assignors") assigned to the Assignee all right, title and interest in and to the Memjet IP Rights and in and to any and all granted patents and all pending patent applications in respect of the Memjet IP Rights;

WHEREAS, pursuant to the Agreement, the Assignors assigned to Assignee all right, title, and interest in the Memjet IP Rights, which include those patent applications and patents set forth in Exhibit A attached hereto (the "Patents");

WHEREAS, pursuant to this Second Confirmatory Assignment of Patent Rights ("Second Confirmatory Assignment"), the Assignors and the Assignee desire to confirm the assignment of the Patents to the Assignee.

NOW THEREFORE, for \$1.00 and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged:

Effective 3 May 2012 (Pacific Standard Time, USA), the Assignors do hereby sell, assign, transfer and set over unto Assignee, its legal representatives, successors, and assigns, all right, title and interest in and to the Memjet IP Rights, the Patents, and all patents and patent applications related to the Memjet IP Rights and the Patents, including but not limited to any provisionals, nonprovisionals, continuations, continuations-in-part, divisionals, reissues, reexaminations, substitutes, renewals, or improvements thereof, and in and to any and all patents which may be issued for said Memjet IP Rights or Patents, including the right to sue and collect damages for past, present, and future infringement of those patents (the "Assigned IP").

The Assignors hereby request that any and all patents for said Memjet IP Rights be issued to Assignee, its successors, assigns and legal representatives, or to such nominees as they may designate to the full end of the term for which said patents may be granted.

The Assignors hereby agree that, when requested, the Assignors will in good faith, without charge to Assignee but at the Assignee's expense, sign all papers, take all rightful oaths, communicate to Assignee all known facts relating to any improvements and the history thereof, and do all acts which may be necessary, desirable or convenient for securing, maintaining and enforcing patents for said inventions in any and all countries and for vesting title thereto in Assignee, its successors, assigns, legal representatives or nominees.

The Assignors hereby authorize and empower Assignee, its successors, assigns, legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for all inventions related to the Assigned IP filed by it or them, the benefit of the right of priority, including but not limited to such right provided by the provisions of any convention

or treaty, and to invoke and claim such right of priority without further written or oral authorization from the Assignors.

The Assignors hereby consent that a copy of this Second Confirmatory Assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the Assignee or its nominees to claim the aforesaid benefit of the right of priority, including but not limited to that provided by any convention or treaty.

The Assignors hereby covenant with Assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, that the Assignors have full right to convey the same as herein expressed free and clear of all liens, claims, and encumbrances, and that this Second Confirmatory Assignment shall be binding on each of the Assignors' heirs, assigns, representatives and successors.

In the event Assignee is unable, after reasonable effort, to secure either of the Assignor's signature on any documents relating to protection or maintenance of the inventions, applications or patents to which this Second Confirmatory Assignment relates, whether because of an Assignor's physical or mental incapacity or for any other reason, the Assignors hereby irrevocably designate and appoint Assignee and its duly authorized officers and agents as their agent and attorney-in-fact, to act for and on their behalf to execute and file any documents necessary to register the Assignee as proprietor of the Assigned IP and to file any application or applications and to do all other lawfully permitted acts to further the prosecution, issuance, and maintenance of the Assigned IP with the same legal force and effect as if personally executed by an Assignor.

This Second Confirmatory Assignment shall be subject to, and interpreted by and in accordance with, the laws of England.

Silverbrook Research Pty. Limited

Witness Signature K Harrison  
Witness Name KATE HARRISON  
Date 19.12.12

By [Signature]  
Kia Silverbrook

Witness Signature K Harrison  
Witness Name KATE HARRISON  
Date 19.12.12

By [Signature]  
Janette Lee

Witness Signature Theresa R. Olmstead  
Witness Name Theresa R. Olmstead  
Date January 30, 2013

Zamtec Limited  
By [Signature]

EXHIBIT A

PATENTS AND PATENT APPLICATIONS

Country	Application Number	Publication or Patent Number	Title	Subject-Matter
Europe	10193974.2	2301753	Printhead module having a dropped row and printer controller for supplying data thereto	Printhead chip
USA	11482977	7784915	MEMS device with nanocrystalline heater	Printhead nozzle
USA	12193721	7804292	Method for testing integrated circuits mounted on a carrier	Assembling and testing
USA	12193742	7805832	Transfer apparatus for transferring a component of integrated circuitry	Assembling and testing
USA	12193747	7877876	Method of attaching integrated circuits to a carrier	Assembling and testing
USA	12193729	7984640	Pressure-based tester for a platform assembly	Assembling and testing
USA	12193727	7987699	Pneumatic assembly for a pressure decay tester	Assembling and testing
USA	12193728	8006967	Cradle assembly for a pressure decay leak tester	Assembling and testing
USA	12193745	8092625	Integrated circuit placement system	Assembling and testing
USA	11242916	7588693	Method of modifying an etched trench	Etch process
USA	10957718	7140723	Micro-electromechanical device for dispensing fluid	Printhead nozzle
USA	09575190	6540319	Movement sensor in a micro electro-mechanical device	Printhead nozzle
USA	09575175	6629745	Fault detection in a micro electro-mechanical device	Printhead nozzle
USA	10303350	6733104	Micro mechanical device fault detection	Printhead nozzle
Europe	05714349.7	1871605	MEMS FLUID SENSOR	Printhead nozzle
Canada	2602714	2602714	MEMS FLUID SENSOR	Printhead nozzle
Australia	2005330071	2005330071	MEMS FLUID SENSOR	Printhead nozzle

Country	Application Number	Publication or Patent Number	Title	Subject-Matter
Europe	06760841.4	2044517	SYSTEM FOR PROTECTING SENSITIVE DATA FROM USER CODE IN REGISTER WINDOW ARCHITECTURE SILVERBROOK RESEARCH	Controller chip
Japan	2009543234	2009-0518674	SYSTEM FOR PROTECTING SENSITIVE DATA FROM USER CODE IN REGISTER WINDOW ARCHITECTURE SILVERBROOK RESEARCH	Controller chip
PCT	PCT/AU2010/01066	WO2011020152	CONTINUOUS WEB PRINTER WITH SHORT MEDIA FEED PATH	Label printer
PCT	PCT/AU2010/00954	WO2011011824	PRINTING SYSTEM WITH FIXED PRINTHEADS AND MOVABLE VACUUM PLATEN	Wideformat printer
PCT	PCT/AU2009/001193	WO2011029121	SOLVENT-BASED INK COMPOSITION FOR THERMAL INKJETS COMPRISING PYRROLIDINONE SOLVENT	Ink
PCT	PCT/AU2009/001449	WO2011029122	SOLVENT-BASED INKS COMPRISING SURFACE-MODIFIED PIGMENTS	Ink
PCT	PCT/AU2010/01222	WO2011038443	COMMUNICATION SYSTEM, METHOD AND DEVICE WITH LIMITED ENCRYPTION KEY RETRIEVAL	Authentication
Canada	2706555	2706555	PRINthead WITH MATCHED RESONANT DAMPING STRUCTURE	Printhead Cartridge
Australia	2004-0210570	2004210570	A PRINTER THAT INCORPORATES A MECHANISM FOR SEPARATING A SHEET OF MEDIA FROM A STACK OF SHEETS	Media feeding
Europe	00929097.4	1206351	TESTING A MICRO ELECTRO-MECHANICAL DEVICE	Printhead nozzle
Canada	2000-2414733	2414733	TESTING A MICRO ELECTRO-MECHANICAL DEVICE	Printhead nozzle
Australia	2000-0047320	761670	TESTING A MICRO ELECTRO-MECHANICAL DEVICE	Printhead nozzle
Europe	00929096.6	1200264	CALIBRATING A MICRO ELECTRO-MECHANICAL DEVICE	Printhead nozzle
Brazil	2000-0011991	0011991	FAULT DETECTION IN A MICRO ELECTRO-MECHANICAL	Printhead nozzle

Country	Application Number	Publication or Patent Number	Title	Subject-Matter
			DEVICE	
Europe	00929098.2	1206352	FAULT DETECTION IN A MICRO ELECTRO-MECHANICAL DEVICE	Printhead nozzle
Europe	00929094.1	1214271	MOVEMENT SENSOR IN A MICRO ELECTRO-MECHANICAL DEVICE	Printhead nozzle
Israel	2000-0147357	147357		Printhead nozzle
Australia	2000-0047321	761821	Fault detection in a micro electro-mechanical device	Printhead nozzle
Australia	2000-0047319	761820	Calibrating a micro electro-mechanical device	Printhead nozzle
Australia	2000-0047317	766416	Movement sensor in a micro electro-mechanical device	Printhead nozzle
China	2000-0810824	1138634	Movement sensor in a micro electro-mechanical device	Printhead nozzle
Australia	2004-0200135	2004200135	Movement sensor in a micro electro-mechanical device	Printhead nozzle
Israel	2004-0164957	164957	MICRO ELECTRO-MECHANICAL DEVICE HAVING AN INTEGRATED MOVEMENT SENSOR	Printhead nozzle
China	2000-0812214	1246215	Movement sensor in a micro electro-mechanical device	Printhead nozzle
China	2003-1113184	1270897	Micro electro-mechanical device having integrated movement sensor	Printhead nozzle
China	2003-1113183	1319740	Failure detection in miniature mechanoelectrical device by utilizing signal current pulse	Printhead nozzle
India	2002-DN00130	220137		Printhead nozzle
Canada	2000-2414734	2414734	FAULT DETECTION IN A MICRO ELECTRO-MECHANICAL DEVICE	Printhead nozzle
Canada	2000-2414732	2414732	CALIBRATING A MICRO ELECTRO-MECHANICAL DEVICE	Printhead nozzle
Canada	2000-2414741	2414741	MOVEMENT SENSOR IN A MICRO ELECTRO-MECHANICAL DEVICE	Printhead nozzle



Country	Application Number	Publication or Patent Number	Title	Subject-Matter
Japan	2001-0507647	4388251	FAULT DETECTION IN A MICRO ELECTRO-MECHANICAL DEVICE	Printhead nozzle
USA	12557525	20110063372	METHOD OF EJECTING SOLVENT-BASED INK COMPOSITION COMPRISING ACETATE SOLVENT	Ink
USA	13099352	20110205304	THERMAL BEND ACTUATOR WITH RESISTIVE HEATING BAR	Assembling and testing
USA	12242326	20090051726	DIGITAL COLOUR PHOTOGRAPH PRINTER	Photo printer
USA	12905024	20110025778	PRINthead ASSEMBLY WITH PROFILED EXTERIOR SURFACE	Printhead cartridge
USA	12837418	20100277536	ELECTRONIC DEVICE HAVING ESSENTIAL HARDWARE AUTHENTICATION	Controller chip
USA	61537063 (filed on 21 September 2011)		INKS AND PRINtheADS	Ink
USA	13469089		INKJET PRINTER HAVING PRINthead AND INK FOR MINIMIZING CORROSION OF EXPOSED CORRODIBLE STRUCTURES WITHIN PRINthead	
USA	61/485,600		INKJET PRINTER HAVING PRINthead AND INK FOR MINIMIZING CORROSION OF EXPOSED CORRODIBLE STRUCTURES WITHIN PRINthead	