FORM PTO-1619A Expires 06/30/99 OMB 0651-0027

06-04-2004



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| Conveying Pa | arty(ies) | Mark if additional name | s of conveying partie | s attached Execution Date Month Day Year |
| Name (line 1) V | VALMSLEY, Simon Robert | | | 05 19 2004 |
| Name (line 2) | | | | Execution Date |
| Second Party Name (line 1) | CHEAHAN John Dohort | | | Month Day Year 05 19 2004 |
| _ | SHEAHAN, John Robert | | | |
| Name (line 2) | | | | |
| Receiving Party Mark if additional names of receiving parties attached | | | | |
| Name (line 1) | SILVERBROOK RESEARCH PT | Y. LTD. | | If document to be recorded is an assignment and the |
| Name (line 2) | | | | receiving party is not domiciled in the United |
| Traine (iiie 2) | | | | States, an appointment of a domestic |
| Address (line 1) | 393 Darling Street | | | representative is attached. (Designation must be a |
| Address (line 2) | | | | separate document from Assignment.) |
| Address (line 3) | Ralmain | NSW, Australia | 204 | 1 |
| | Citv | State/Country | Zip C | |
| Domestic Rep | presentative Name and Ad | ICITESS Enter for the | e first Receiving Party | only. |
| Name | | | | |
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FORM

Expires 06/ OMB 0651 Conveying Party(ies) Mark if additional names of conveying parties attached **Execution Date** Enter additional Conveying Parties Month Day Year 05 19 2004 Name (line 1) JACKSON PULVER, Mark Name (line 2) **Execution Date** Month Day Year WEBB, MICHAEL JOHN 05 19 2004 Name (line 1) Name (line 2) **Execution Date** Month Day Name (line 1) 05 19 2004 PLUNKETT, RICHARD THOMAS Name (line 2) Receiving Party(ies) Mark if additional names of receiving parties attached Enter additional Receiving Party(ies) If document to be recorded Name (line 1) is an assignment and the receiving party is not Name (line 2) domiciled in the United States, an appointment of a domestic representative Address (line 1) is attached. (Designation must be a separate document from Address (line 2) Assignment.) Address (line 3) State/Country Zip Code Name (line 1) If document to be recorded is an assignment and the receiving party is not Name (line 2) domiciled in the United States, an appointment of a domestic representative is Address (line 1) attached. (Designation must be a separate document from Assignment.) Address (line 2) Address (line 3) State/Country Zip Code **Application Number(s) or Patent Number(s)** Mark if additional numbers attached Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property). Patent Number(s) Patent Application Number(s) 10854498

FORM PTO-1619C Expires 06/30/99 OMB 0651-0027

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| Enter additional Co | onveying Parties | Month Day Year |
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| Name (line 2) | | Execution Date Month Day Year |
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| Name (line 2) | | Execution Date |
| Name (line 1) | | Month Day Year |
| Name (line 2) | | |
| Receiving Par | ty(ies) Mark if additional names of receiving parti | es attached |
| _ | eceiving Party(ies) | |
| Name (line 1) | | If document to be recorded is an assignment and the receiving party is not |
| Name (line 2) | | domiciled in the United States, an appointment |
| Address (line 1) | | of a domestic representative is attached. (Designation must be a separate |
| Address (line 2) | | document from Assignment.) |
| Address (line 3) | City State/Country Zip Co. | de |
| Name (line 1) | | If document to be recorded is an assignment and the |
| Name (line 2) | | receiving party is not domiciled in the United States, an appointment of a |
| Address (line 1) | | domestic representative is attached. (Designation must be a separate document from |
| Address (line 2) | | Assignment.) |
| Address (line 3) | City State/Country Zip 0 | Code |
| Application N | umber(s) or Patent Number(s) Mark if additional numbers attached | |
| | Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the s | ame property). |
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| | lame and Address | Country, Area Code | and Telepho | ne Number 6 | 31-2-9818-66 | 33 | 166 |
| Name Kia S | Silverbrook | | | | | | |
| Address (line 1) Silve | erbrook Research Pty. Ltd. | | | | | | |
| Address (line 2) 393 | Darling Street | | | | | | |
| Address (tine 3) Baln | nain, NSW 2041 | | | | | | |
| Address (line 4) Aust | tralia | | | | | | |
| • | r the total number of page | es of the att | ached conve | yance docum | ent # | 12 | |
| Enter either the Pater Patent A | ber(s) or Patent Number or the Patent opplication Number or the Patent opplication Number(s) filed together with a new Patent d executing inventor. | ent Number (l | | Patent | Number(s) | operty). | Year |
| <u>only if</u> a U | application number I.S. Application Number een assigned. | PCT PCT | P | CT | PCT PCT | | |
| Fee Amount | Fee Amount fo | r Properties | Listed (37 (| CFR 3.41): \$ | 240 | | |

Statement and Signature

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SEE ATTACHED SIGNATURE PAGE DUE TO LARGE NUMBER OF INVENTORS ON THIS APPLICATION

SEE ATTACHED SIGNATURE PAGE

May 19, 2004

Yes

Name of Person Signing

Signature

Authorization to charge additional fees:

Deposit Account

Date

| ASSIGNMENT OF APPLICATION | Docket Number (Optional) PLT012US |
|---|--|
| 200 Deutiner Chrock | |
| 393 Darling Street Whereas, I, SIMON ROBERT WALMSLEY of Balmain, NSW 2041, | , Australia, hereafter |
| referred to as applicant, have invented certain new and useful improvements | s in |
| Printer Controller for Controlling a Printhead with Horizontally Grouped Fir | ing Order |
| for which an application for a United States Patent was filed on Application Number/ for which an application for a United States Patent was executed on | |
| Whereas, SILVERBROOK RESEARCH PTY. LTD. of Balmain, New South Wal | es, Australia herein referred to |
| "assignee" whose post office address is393 Darling Street, Balmain, NSW 2 | 2041, Australia is de- |
| sirous of acquiring the entire right, title and interest in the same; | |
| Now, therefore, in consideration of the sum of <u>one</u> dollars (\$\frac{1.00}{} |), the receipt whereof is ac- |
| knowledged, and other good and valuable consideration, I, the applicant, by | these presents do sell, assign and all countries in the worl |
| and transfer unto said assignee the full and exclusive right to the said invention entire right, title and interest in and to any and all Patents which may be granted. | and all countries in the work |
| I hereby authorize and request the Commissioner of Patents and Tradema | rks to issue said United States |
| Patent to said assignee, of the entire right, title, and interest in and to the san | ne, for his sole use and behoof; |
| and for the use and behoof of his legal representatives, to the full end of the | term for which said Patent may |
| be granted, as fully and entirely as the same would have been held by me ha | d this assignment and sale not |
| been made. | |
| Executed this 19th day of May | , *% x 2004_, |
| at Balmain, New South Wales, Australia | |
| | |
| Soma has | (Stanature) |
| State of SS: County of) | , |
| Before me personally appeared said | |
| and acknowledged the foregoing instrument to be his free act and deed this | |
| day of, 19 | |
| Seal | (Notary Public) |

Burden Hour Statement: This form is estimated to take 0.1 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner of Patents and Trademarks, Washington, DC 20231.

Docket Number (Optional)

PTO/SB/15 (8-96)
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| ASSIGNMENT OF APPLICATION | PLT012US |
|--|--|
| 393 Darling Street Whereas, I, <u>JOHN ROBERT SHEAHAN</u> of <u>Balmain, NSW 2041, A</u> | Australia , hereafter |
| referred to as applicant, have invented certain new and useful improvements | in |
| Printer Controller for Controlling a Printhead with Horizontally Grouped Firing | g Order |
| for which an application for a United States Patent was filed on Application Number/ Y for which an application for a United States Patent was executed on | |
| Whereas, SILVERBROOK RESEARCH PTY. LTD. of Balmain, New South Wales | s, Australia herein referred to |
| "assignee" whose post office address is393 Darling Street, Balmain, NSW 20 | 41, Australia is de- |
| sirous of acquiring the entire right, title and interest in the same; | |
| Now, therefore, in consideration of the sum of <u>one</u> dollars (\$1.00 | _), the receipt whereof is ac- |
| knowledged, and other good and valuable consideration, I, the applicant, by the | |
| and transfer unto said assignee the full and exclusive right to the said invention | and all countries in the world n in the United States and the |
| entire right, title and interest in and to any and all Patents which may be granted | and all countries in the world d therefor in the United States, |
| I hereby authorize and request the Commissioner of Patents and Trademark | s to issue said United States |
| Patent to said assignee, of the entire right, title, and interest in and to the same | e, for his sole use and behoof; |
| and for the use and behoof of his legal representatives, to the full end of the te | rm for which said Patent may |
| be granted, as fully and entirely as the same would have been held by me had | this assignment and sale not |
| been made. | |
| Executed this day of | ,X § 2004, |
| at Balmain, New South Wales, Australia | |
| State of | Signature) |
| Seal (N | otary Public) |

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| ACCIONMENT OF ARRIVATION | Docket Number (Optional) |
|---|--|
| ASSIGNMENT OF APPLICATION | PLT012US |
| 393 Darling Whereas, I, <u>MARK JACKSON PULVER</u> of <u>Balmain, N</u> | |
| referred to as applicant, have invented certain new and useful impr | ovements in |
| Printer Controller for Controlling a Printhead with Horizontally Grouped Firi | |
| | |
| for which an application for a United States Patent was filed Application Number/ | |
| for which an application for a United States Patent was exe | cuted on May 19, 2004 , and |
| Whereas, SILVERBROOK RESEARCH PTY. LTD. of Balmain, New S | |
| "assignee" whose post office address is393 Darling Street, Balma | n, NSW 2041, Australia is de- |
| sirous of acquiring the entire right, title and interest in the same; | |
| Now, therefore, in consideration of the sum of <u>one</u> dollars (S | 51.00), the receipt whereof is ac- |
| knowledged, and other good and valuable consideration, I, the app | licant, by these presents do sell, assign |
| and transfer unto said assignee the full and exclusive right to the sa | and all countries in the world aid invention in the United States/and the and all countries in the world |
| entire right, title and interest in and to any and all Patents which may | be granted therefor in the United States, |
| I hereby authorize and request the Commissioner of Patents and | Trademarks to issue said United States |
| Patent to said assignee, of the entire right, title, and interest in and | to the same, for his sole use and behoof; |
| and for the use and behoof of his legal representatives, to the full e | nd of the term for which said Patent may |
| be granted, as fully and entirely as the same would have been held | by me had this assignment and sale not |
| been made. | |
| Executed this day of | , X\$2004, |
| at Balmain, New South Wales, Australia | <i></i> |
| | |
| State of | (Signature) |
| day of, 19 | |
| Seal | (Notary Public) |
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Docket Number (Optional)

PTO/SB/15 (8-96)
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Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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| | ASSIGNMENT OF | APPLICATION | PL | .T012US | |
|--|--|------------------------------|---------------------------------------|--|----------------------|
| | | | rling Street | | |
| Whereas, I, MICI | Whereas, I, MICHAEL JOHN WEBB of Balmain, NSW 2041, Australia , hereafter | | | :er | |
| referred to as applicant, have invented certain new and useful improvements in | | | | | _ |
| Printer Controller fo | or Controlling a Printhead | I with Horizontally Group | ed Firing Order | | |
| Application | an application for a Un on Number/_ an application for a Un | | | | |
| Whereas, SILVER | BROOK RESEARCH P | Y. LTD. of Balmain, N | lew South Wales, Austr | alia herein referred | to |
| "assignee" whose | post office address is _ | 393 Darling Street, Ba | almain, NSW 2041, Aus | stralia is d | e- |
| sirous of acquiring | g the entire right, title a | nd interest in the same | э; | | |
| Now, therefore, in | consideration of the s | um of <u>one</u> dolla | ars (\$ <u>1.00</u>), the | receipt whereof is a | C- |
| and transfer unto | other good and valuab said assignee the full a nd interest in and to any | nd exclusive right to th | and ne said invention in the ar | d all countries in the e United States/and t nd all countries in the | world he world |
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| • | e and request the Com | | | | |
| Patent to said ass | ignee, of the entire righ | ıt, title, and interest in a | and to the same, for hi | is sole use and beho | of; |
| and for the use an | nd behoof of his legal re | presentatives, to the f | ull end of the term for | which said Patent ma | ìу |
| be granted, as full | ly and entirely as the sa | ame would have been l | held by me had this as | ssignment and sale n | ot |
| been made. | | | | | |
| Executed this | 19 | day ofMay | | , XS 2004, | |
| at <u>Balmain, Nev</u> | v South Wales, Austra | lia | | | |
| | | | M.W.l | | _ |
| and acknowledge | | | | _ | |
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| ASSIGNMENT OF APPLIC | Docket Number (Optional) PLT012US | |
|--|---|---------------------------------|
| Whereas, I, RICHARD THOMAS PLUNKETT | 393 Darling Street of Balmain, NSW 2041, A | Australia, hereafter |
| referred to as applicant, have invented certain nev | v and useful improvements | in |
| Printer Controller for Controlling a Printhead with Horiz | ontally Grouped Firing Order | |
| for which an application for a United States Application Number/ for which an application for a United States | · | |
| Whereas, SILVERBROOK RESEARCH PTY. LTD. | of <u>Balmain, New South Wales</u> | s, Australia herein referred to |
| "assignee" whose post office address is 393 Dar | ling Street, Balmain, NSW 20 | 41, Australia is de- |
| sirous of acquiring the entire right, title and interes | st in the same; | |
| Now, therefore, in consideration of the sum of on | edollars (\$ <u>1.00</u> | _), the receipt whereof is ac- |
| knowledged, and other good and valuable consider | | and all countries in the world |
| and transfer unto said assignee the full and excluse entire right, title and interest in and to any and all Pa | • | and all countries in the world |
| I hereby authorize and request the Commissioner | r of Patents and Trademark | s to issue said United States |
| Patent to said assignee, of the entire right, title, and | d interest in and to the same | e, for his sole use and behoof; |
| and for the use and behoof of his legal representat | tives, to the full end of the te | rm for which said Patent may |
| be granted, as fully and entirely as the same would | d have been held by me had | this assignment and sale not |
| been made. | | |
| Executed this day of | May | ,X\$2004, |
| at Balmain, New South Wales, Australia | | · |
| | D. P. Crimbealt | |
| State of | (5 | Signature) |
| Seal | (N | lotary Public) |

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| ASSIGNMENT OF APPLICATION | Docket Number (C PLT012US | optional) | |
|---|------------------------------|--|--------------|
| 393 Dar Whereas, I, KIA SILVERBROOK of Balmain | ling Street | | . hereafter |
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| referred to as applicant, have invented certain new and useful in Printer Controller for Controlling a Printhead with Horizontally Grouped | | · | |
| Time Controller for Controlling a Finithead with Horzontally Grouped | T ming Order | | |
| for which an application for a United States Patent was Application Number/_ | | | , |
| x for which an application for a United States Patent was | executed on Ma | ay 19, 2004 | _, and |
| Whereas, SILVERBROOK RESEARCH PTY. LTD. of Balmain, N | | | referred to |
| "assignee" whose post office address is 393 Darling Street, Ba | Imain, NSW 204 | 1, Australia | is de- |
| sirous of acquiring the entire right, title and interest in the same | ; | | |
| Now, therefore, in consideration of the sum of <u>one</u> dolla | rs (\$1.00 |), the receipt whe | reofis ac- |
| knowledged, and other good and valuable consideration, I, the | applicant, by the | | |
| and transfer unto said assignee the full and exclusive right to the | e said invention | and all countrie in the United State and all countries | |
| entire right, title and interest in and to any and all Patents which r | may be granted t | therefor in the Uni | ted States/, |
| I hereby authorize and request the Commissioner of Patents a | nd Trademarks | to issue said Uni | ted States |
| Patent to said assignee, of the entire right, title, and interest in a | nd to the same, | for his sole use a | nd behoof; |
| and for the use and behoof of his legal representatives, to the fu | ıll end of the terr | m for which said P | atent may |
| be granted, as fully and entirely as the same would have been h | eld by me had t | his assignment ar | nd sale not |
| been made. | | | |
| Executed this day of day | ··· | , X9 2004 | |
| at <u>Balmain, New South Wales, Australia</u> | | | • |
| | lus | <u>}</u> | |
| State of SS: | (Si | ignature) | |
| County of) | | | |
| Before me personally appeared saidand acknowledged the foregoing instrument to be his free act and | d deed this | | |
| day of, 19 | | | |
| | | | |

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Seal

PATENT REEL: 015406 FRAME: 0447

(Notary Public)



Inventor/s Signature/s Page for Recordation Cover Sheet form PTO-1619B

Attorney Docket No: PLT012US

First Inventor : Simon Robert Walmsley

Title : Printer Controller for Controlling a Printhead with

Horizontally Grouped Firing Order

RECORDED: 05/27/2004

| SIMON ROBERT WALMSLEY | Samoi Walnuty |
|-------------------------|---------------|
| | 100 |
| JOHN ROBERT SHEAHAN | |
| MARK JACKSON PULVER | |
| MICHAEL JOHN WEBB | M. Will |
| RICHARD THOMAS PLUNKETT | L. Plimkett |
| KIA SILVERBROOK | Lur |