

11-14-2003

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original documents or copy thereof.

1. Name of conveying party(ies):

Philip Hart

11-12-03

2. Name and address of receiving party(ies)

Name Zipher Limited

Internal Address

Street Address 7 Faraday Building, Nottingham Science

and Technology Park, University Boulevard

Nottingham NG7 2QP, United Kingdom

City State Zip

Additional name(s) & address(es) attached? Yes No

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

- Assignment Merger Security Agreement Change of Name Other

Execution Date: October 13, 2003

4. Application number(s) or registration number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s) 10/469,315

A. Patent No.(s)

Additional number(s) attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name Internal Address Woodard, Emhardt, Moriarty, McNett, & Henry LLP

Street Address 111 Monument Circle Suite 3700

City Indianapolis State IN ZIP 46204

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$40.00

- Enclosed Authorized to be charged to deposit account

8. Deposit account number:

23-3030

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9. Statement and Signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

John H. Allie

Name of Person Signing

Signature

November 10, 2003

Date

Total number of pages including cover sheet, attachments, and document: 3

Mail documents to be recorded with required cover sheet information to: Director of the U.S. Patent and Trademark Office, Mail Stop Assignment Recordation Services P.O. Box 1450, Alexandria, VA 22313-1450 or VIA FACSIMILE (703) 306-5995 027044-000004.JHA.249907

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to the Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 on

November 10, 2003

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John H. Allie

Name of Registered Representative

Signature

November 10, 2003

Date of Signature

PATENT

REEL: 014679 FRAME: 0817

11/13/2003 EDDOPER 0000004 1046315

01 FC-6021

ASSIGNMENT

WHEREAS, Philip Hart of 25 Springfield Drive, Nuthall, Nottingham NG6 8WB, ~~United~~^{United} *PH*
Kingdom, hereinafter referred to as Assignor, has made one or more new and useful inventions
in **IMPROVEMENTS IN PRINTING** for which Assignor has made or will make application
for patent including International Application No. PCT/GB02/00849 and U. S. Patent
Application (hereinafter the "Application"); and

WHEREAS, Zipher Limited, hereinafter referred to as Assignee, having a principal place
of business at 7 Faraday Building, Nottingham Science and Technology Park, University
Boulevard, Nottingham NG7 2QP, United Kingdom, desires to acquire all of the entire right,
title, and interest in, to and under the one or more inventions disclosed, described and claimed or
intended so to be in the Application, and in, to and under the Application, and in, to and under
any and all Letters Patent, United States and foreign, which may be obtained therefor and
thereon;

NOW, THEREFORE, to all whom it may concern, be it known that for and in
consideration of the sum of One Dollar (\$1.00) and other good, valuable and sufficient
consideration to Assignor in hand paid, the receipt of which is hereby acknowledged, Assignor
has sold, assigned and transferred, and by these presents does sell, assign and transfer unto
Assignee, all of the entire right, title, and interest in, to and under the one or more inventions
disclosed, described and claimed or intended so to be in the Application entitled
IMPROVEMENTS IN PRINTING, and any and all other applications thereon and arising
therefrom, including any and all applications claiming the benefit thereof, and any and all
divisions, continuations, and continuation-in-parts thereof, and any and all patents to be issued

and obtained therefor and thereon, United States and foreign, including all reissues and extensions thereof.

Assignor acknowledges that the Application was executed concurrently herewith unless a different execution date is indicated in item (a) below. Assignor hereby authorizes the Assignee, its counsel, or its agents to fill-in some or all of the following list of information items (a) through (c) at the discretion of the Assignee, its counsel, or its agents:


- (a) Execution Date of the Application: October 13, 2003
- (b) Patent Office Number for the Application: 10/469,315
- (c) Filing date of the Application: August 28, 2003

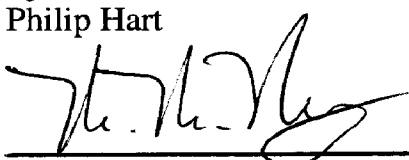
Assignor hereby authorizes and requests the Honorable Assistant Secretary and Commissioner of Patents and Trademarks to issue said Letters Patent to Assignee, its assigns and legal representatives.

Assignor agrees to assign and execute any and all other papers necessary or desirable for the procurement of Letters Patent on said invention in this and all foreign countries for the use of Assignee.

WITNESS Assignor's hand this 13th day of OCTOBER, 2003.

WITNESSED by



Philip Hart


MARTIN McNESTRY