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Commissioner of Patents
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Alexandria, VA 22313-1450

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Ian Charles SAGE
Wendy Helen HOWIE
Ian David BROTHERSTON

Additional name/s of conveying party/ies attached? ☐

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Assignment ☐ Change of Name
☐ Other

Execution Date: January 6, 8, 29, 2004

2. Name and address of receiving party(ies):

Name: QINETIQ LIMITED
Internal Address:
Street Address: 85 Buckingham Gate

City: London
State/Country: United Kingdom
Zip: SW1E 6PD

Additional name/s & address/es attached? ☐ Yes ☒ No

4. Application number(s) or patent 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).

(1) 10/486,964
(2)
(3)

B. Patent No(s).

(1)
(2)
(3)

Additional numbers attached ☐ Yes ☒ No

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

Name: Arthur R. Crawford

Internal Address: _____

Street Address: Nixon & Vanderhye P.C.
1100 North Glebe Road
8th Floor

City: Arlington State: VA Zip: 22201

6. Total number of applications & patents involved: 1

7. Total fee (37 CFR 3.41) (8021) \$ 40.00

☒ Enclosed
☐ Authorized to be charged to deposit account #14-1140

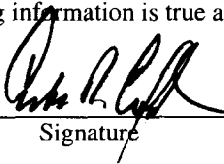
8. The Commissioner is hereby authorized to charge any deficiency in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper thereafter filed in this application by this firm) to our Account No. **14-1140.**

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9. Statements 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.

Arthur R. Crawford
Name of Person Signing
Reg. No. 25,327


Signature

March 9, 2005
Date

Total number of pages including original cover sheet, attachments, and document: [7]

03/11/2005 6TON11 00000014 10486964

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PATENT
REEL: 016342 FRAME: 0908

ASSIGNMENT OF PATENT APPLICATION

(Inventors) (SAGE, Ian Charles
(HOWIE, Wendy Helen
(BROTHERSTON, Ian David
(
In consideration of past and future employment, and my (our) obligation to assign intellectual property generated as result of my (our) employment, the receipt and sufficiency of which consideration is hereby acknowledged, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(Assignee)
(Address) (QINETIQ LIMITED
(of QINETIQ LIMITED, Registered Office 85 Buckingham Gate, London, SW1E 6PD, UK)
(hereinafter designated as the Assignee) the undersigned's entire right, title and interest for the United States, its territories, dependencies and possessions, and for the country of

(Other
Countries) (in the invention, and all application for patent and any Letters
(Title) Patent which may be granted therefore, known as
Triboluminescent Materials And Devices Containing Them
(Case No.P3210/USW)
for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed (on _____ or has already filed in _____
(U.S. appln. Serial No. 10/486,964, filed on Feb. 17, 2004
(The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient and further to perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of NIXON & VANDERHYE P.C. the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).

Signature of Inventor _____ Date _____
SAGE, Ian Charles

Witnessed by _____ Date _____

Signature of Inventor *W. Howie* Date 5/01/2004
HOWIE, Wendy Helen

Witnessed by *D. Rochester* Date 2/1/2004

Signature of Inventor _____ Date _____
BROTHERSTON, Ian David

Witnessed by _____ Date _____

Signature of Inventor _____ Date _____

Witnessed by _____ Date _____

Signature of Inventor _____ Date _____

Witnessed by _____ Date _____

Signature of Inventor _____ Date _____

Witnessed by _____ Date _____

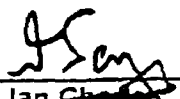
(SAGE, Ian Charles
(HOWIE, Wendy Helen
(BROTHERSTON, Ian David


(Assignee) (QINETIQ LIMITED
(Address) (of QINETIQ LIMITED, Registered Office 85 Buckingham Gate, London, SW1E 6PD,
UK)

(Other Countries) () in the invention, and all application for patent and any Letters Patent which may be granted therefore, known as

Triboluminescent Materials And Devices Containing Them
(Case No.P3210/USW)

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).

Signature of Inventor  Date 29th Jan '04
SAGE, Ian Charles

Witnessed by  Date 29/01/04

Signature of Inventor _____ Date _____
HOWIE, Wendy Helen

Witnessed by _____ Date _____

Signature of Inventor _____ Date _____
BROTHERSTON, Ian David

Witnessed by _____ Date _____

Signature of Inventor _____ Date _____

Witnessed by _____ Date _____

Signature of Inventor _____ Date _____

Witnessed by _____ Date _____

Signature of Inventor _____ Date _____

Witnessed by _____ Date _____

ASSIGNMENT OF PATENT APPLICATION

(Inventors) (SAGE, Ian Charles
(HOWIE, Wendy Helen
(BROTHERSTON, Ian David
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(Assignee) (QINETIQ LIMITED
(Address) (of QINETIQ LIMITED, Registered Office 85 Buckingham Gate, London, SW1E 6PD, UK)
(hereinafter designated as the Assignee) the undersigned's entire right, title and interest for the United States, its territories, dependencies and possessions, and for the country of

(Other Countries) (in the invention, and all application for patent and any Letters
(Title) Patent which may be granted therefore, known as
Triboluminescent Materials And Devices Containing Them
(Case No.P3210/USW)
for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed (on _____ or has already filed in _____
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(The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

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258050

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).

Signature of Inventor _____ Date _____
SAGE, Ian Charles

Witnessed by _____ Date _____

Signature of Inventor _____ Date _____
HOWIE, Wendy Helen

Witnessed by _____ Date _____

Signature of Inventor  _____ Date 06/01/04
BROTHERSTON, Ian David

Witnessed by _____ Date _____

Signature of Inventor _____ Date _____

Witnessed by _____ Date _____

Signature of Inventor _____ Date _____

Witnessed by _____ Date _____

Signature of Inventor _____ Date _____

Witnessed by _____ Date _____