

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------------|----------------|
| Erik V. JOHNSON | 06/22/2011 |
| Pere ROCA I CABARROCAS | 06/22/2011 |

RECEIVING PARTY DATA

| | |
|-----------------|---------------------|
| Name: | ECOLE POLYTECHNIQUE |
| Street Address: | ROUTE DE SACLAY |
| City: | PALaiseau |
| State/Country: | FRANCE |
| Postal Code: | F-91120 |

| | |
|-----------------|--|
| Name: | CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE |
| Street Address: | 3, RUE MICHEL ANGE |
| City: | PARIS CEDEX 16 |
| State/Country: | FRANCE |
| Postal Code: | F-75794 |

| | |
|-----------------|----------------------------------|
| Name: | TOTAL SA |
| Street Address: | 2 PLACE JEAN MILLIER, LA DEFENSE |
| City: | COURBEVOIE |
| State/Country: | FRANCE |
| Postal Code: | F-92400 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 13132776 |

CORRESPONDENCE DATA

Fax Number: (703)685-0573

501614620

PATENT
REEL: 026691 FRAME: 0400

OP \$40.00 13132776

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 703-521-2297
Email: jralls@young-thompson.com
Correspondent Name: Young & Thompson
Address Line 1: 209 Madison, Suite 500
Address Line 4: Alexandria, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:

0510-1298

NAME OF SUBMITTER:

Benoit Castel

Total Attachments: 1
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ASSIGNMENT

WHEREAS,

JOHNSON Erik V.ROCA I CABARROCAS Pere

hereafter referred to as "applicant(s)", have invented certain new and useful improvements in
 PHOTOVOLTAIC MODULE INCLUDING A TRANSPARENT CONDUCTIVE ELECTRODE HAVING A VARIABLE
 THICKNESS, AND METHODS FOR MANUFACTURING SAME

(a) for which an application for a United States patent was filed on

JUNE 3, 2011, Application No. 13/132776,

(b) for which an application for a United States patent was executed on

WHEREAS,

1) ECOLE POLYTECHNIQUE,

2) CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE,

3) TOTAL SA,

whose addresses are,

1) route de Saclay, F-91120 PALAISEAU,

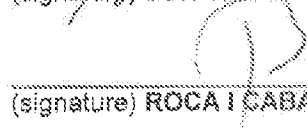
2) 3 rue Michel Ange, F-75794 PARIS Cedex 16,

3) 2 place Jean Millier, La Défense 6, F-92400 COURBEVOIE,

hereinafter referred to as "assignee(s)", is desirous of acquiring the entire right, title and interest in and
 to the same,

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00), the receipt whereof is
 acknowledged, and other good and valuable consideration, applicant(s), by these presents, do(es)
 hereby sell, assign and transfer unto said assignee(s) the full and exclusive right to the said invention in
 the United States and the entire right, title and interest in and to any and all patents which may be
 granted therefore in the United States, for its sole use and behoof, and for the use and behoof of its
 legal representatives, to the full end of the term for which said patents may be granted, as fully and
 entirely as the same would have been held by applicant(s) had this assignment and sale not been made.

Applicant(s) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to
 issue said United States patents to said assignee(s).

Date 22-06-2011
(signature) JOHNSON Erik V.Date 22-06-2011
(signature) ROCA I CABARROCAS Pere