



(11) **EP 3 457 119 B8**

(12) **CORRECTED EUROPEAN PATENT SPECIFICATION**

(15) Correction information:  
**Corrected version no 1 (W1 B1)**  
**Corrections, see**  
**Bibliography INID code(s) 73**

(51) Int Cl.:  
**G01N 25/20** (2006.01) **G01N 25/72** (2006.01)  
**G01N 21/84** (2006.01) **G01J 5/00** (2006.01)

(48) Corrigendum issued on:  
**07.04.2021 Bulletin 2021/14**

(45) Date of publication and mention  
of the grant of the patent:  
**24.02.2021 Bulletin 2021/08**

(21) Application number: **18195283.9**

(22) Date of filing: **18.09.2018**

(54) **METHOD AND SYSTEM FOR DETECTING PRECURSOR TO THERMAL BARRIER COATING SPALLATION**

VERFAHREN UND SYSTEM ZUR ERKENNUNG EINES VORLÄUFERS FÜR  
WÄRMEDÄMMSCHICHTUNGSAUFSPLITTERUNG

PROCÉDÉ ET SYSTÈME DE DÉTECTION DE PRÉCURSEUR DE SPALLATION D'UN  
REVÊTEMENT SERVANT DE BARRIÈRE THERMIQUE

(84) Designated Contracting States:  
**AL AT BE BG CH CY CZ DE DK EE ES FI FR GB**  
**GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO**  
**PL PT RO RS SE SI SK SM TR**

(30) Priority: **18.09.2017 US 201715706958**

(43) Date of publication of application:  
**20.03.2019 Bulletin 2019/12**

(73) Proprietor: **Raytheon Technologies Corporation**  
**Farmington, CT 06032 (US)**

(72) Inventors:  
• **OUYANG, Zhong**  
**Glastonbury, CT 06033 (US)**

• **SMITH, Kevin D**  
**Glastonbury, CT 06033 (US)**

(74) Representative: **Dehns**  
**St. Bride's House**  
**10 Salisbury Square**  
**London EC4Y 8JD (GB)**

(56) References cited:  
**EP-A1- 1 726 943 EP-A1- 3 315 447**  
**US-A1- 2008 317 090 US-A1- 2014 067 185**  
**US-A1- 2016 301 880 US-B1- 9 519 844**  
**US-B2- 7 425 093**

Note: Within nine months of the publication of the mention of the grant of the European patent in the European Patent Bulletin, any person may give notice to the European Patent Office of opposition to that patent, in accordance with the Implementing Regulations. Notice of opposition shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).

**EP 3 457 119 B8**