

Patents:

- 1) Crack-resistant environmental barrier coatings - EP 2698446 A2
<https://www.google.com/patents/EP2698446A2?cl=en&dq=rupak+das&hl=en&sa=X&ei=LhKVVMf7LpTjoATAo4GQBA&ved=0CB0Q6AEwAA>
Filing date: Aug 15, 2013, Publication date: Feb 19, 2014, Other inventors: [James Zhang](#), [Herbert Chidsey Roberts](#)
- 2) Cavitation-resistant environmental barrier coating - EP 2698451 A2
<https://www.google.com/patents/EP2698451A2?cl=en&dq=rupak+das&hl=en&sa=X&ei=LhKVVMf7LpTjoATAo4GQBA&ved=0CCQQ6AEwAQ>
Filing date: Aug 6, 2013, Publication date: Feb 19, 2014, Other inventors:
- 3) Creep-resistant environmental barrier coatings - EP 2698452 A2
<https://www.google.com/patents/EP2698452A2?cl=en&dq=rupak+das&hl=en&sa=X&ei=LhKVVMf7LpTjoATAo4GQBA&ved=0CCsQ6AEwAq>
Filing date: Aug 6, 2013, Publication date: Feb 19, 2014, Other inventors: [Robert Alan Brittingham](#)
- 4) Reinforced articles and methods of making the same - WO 2014022107 A3
<https://www.google.com/patents/WO2014022107A3?cl=en&dq=rupak+das&hl=en&sa=X&ei=LhKVVMf7LpTjoATAo4GQBA&ved=0CDIQ6AEwAw>
Filing date: Jul 18, 2013, Publication date: Apr 10, 2014, Other inventors:
- 5) Reinforced articles and methods of making the same - WO 2014022107 A2
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Filing date: Jul 18, 2013, Publication date: Feb 6, 2014, Other inventors:
- 6) Articles renforcés et leurs procédés de fabrication - WO 2014022107 A3
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- 7) Articles renforcés et leurs procédés de fabrication - WO 2014022107 A2
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- 8) Reinforced articles and methods of making the same - WO 2014022081 A1
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- 9) Articles renforcés et procédés de fabrication de ces derniers - WO 2014022081 A1
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- 10) Turbine repair process, repaired coating, and repaired turbine component -
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<https://www.google.com/patents/WO2014022040A3?cl=en&dq=rupak+das&hl=en&sa=X&ei=LhKVVMf7LpTjoATAo4GQBA&ved=0CGIQ6AEwCQ>
Filing date: Jun 28, 2013, Publication date: May 8, 2014, Other inventors:
- 11) Turbine repair process, repaired coating, and repaired turbine component
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<https://www.google.com/patents/WO2014022040A2?cl=en&dq=rupak+das&hl=en&sa=X&ei=ZhKVVM-1BpXUoASA74H4Bg&ved=0CBwQ6AEwADgK>
Filing date: Jun 28, 2013, Publication date: Feb 6, 2014, Other inventors: John McConnell Delvaux, Andres Jose Garcia-Crespo
- 12) Procédé de réparation de turbine, revêtement réparé et élément de turbine réparé
WO 2014022040 A3
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- 13) Procédé de réparation de turbine, revêtement réparé et élément de turbine réparé
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- 14) Coating system for a gas turbine component - WO 2014007995 A1
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Filing date: Jun 20, 2013, Publication date: Jan 9, 2014, Other inventors: Jon Conrad Schaeffer, James Zhang
- 15) Système de revêtement pour un composant de turbine à gaz - WO 2014007995 A1
<https://www.google.com/patents/WO2014007995A1?cl=fr&dq=rupak+das&hl=en&sa=X&ei=ZhKVVM-1BpXUoASA74H4Bg&ved=0CDwQ6AEwBDgK>
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- 16) Continuous fiber reinforced mesh bond coat for environmental barrier coating system - EP 2615250 A1
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Filing date: Jan 4, 2013, Publication date: Jul 17, 2013, Other inventors: James Zhang, Herbert Chidsey Roberts III, John Mcconnell Delvaux
- 17) Composition of a bond coat for environmental barrier coatings able to hinder or reverse creep degradation - EP 2615249 A2
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Filing date: Nov 9, 2012, **Publication date:** Jul 17, 2013, **Other inventors:** James Zhang, John McConnell Delvaux

- 18) **Creep resistant coating for ceramic turbine blades - EP 2615247 A2**
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- 19) **Crack-resistant environmental barrier coatings - US 20140050898 A1**
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Filing date: Aug 17, 2012, **Publication date:** Feb 20, 2014, **Other inventors:** James Zhang, Herbert Chidsey Roberts III
- 20) **Creep-resistant environmental barrier coatings - US 20140050930 A1**
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Filing date: Aug 16, 2012, **Publication date:** Feb 20, 2014, **Other inventors:** Robert Alan Brittingham
- 21) **Cavitation-resistant environmental barrier coatings - US 20140050929 A1**
<https://www.google.com/patents/US20140050929?dq=rupak+das&hl=en&sa=X&ei=jBKVVKTQKMXroASGhIGACg&ved=0CBwQ6AEwADgU>
Filing date: Aug 15, 2012, **Publication date:** Feb 20, 2014, **Other inventors:**
- 22) **Reinforced articles and methods of making the same - US 20140037970 A1**
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- 23) **Reinforced articles and methods of making the same - US 20140037971 A1**
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Filing date: Aug 3, 2012, **Publication date:** Feb 6, 2014, **Other inventors:**
- 24) **Turbine repair process, repaired coating, and repaired turbine component**
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<https://www.google.com/patents/US20140030464?dq=rupak+das&hl=en&sa=X&ei=jBKVVKTQKMXroASGhIGACg&ved=0CDEQ6AEwAzqU>
Filing date: Jul 30, 2012, **Publication date:** Jan 30, 2014, **Other inventors:** John McConnell Delvaux, Andres Jose Garcia-Crespo
- 25) **Coating system for a gas turbine component - US 20140011038 A1**
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- 26) Continuous Fiber Reinforced Mesh Bond Coat for Environmental Barrier Coating System - US 20130177440 A1
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Filing date: Jan 11, 2012, Publication date: Jul 11, 2013, Other inventors: James Zhang, Rupak Das, Herbert Chidsey Roberts, III, John McConnell Delvaux
- 27) Compositional Bond Coat for Hindering/Reversing Creep Degradation in Environmental Barrier Coatings - US 20130177441 A1
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Filing date: Jan 11, 2012, Publication date: Jul 11, 2013, Other inventors: John McConnell Delvaux, James Zhang
- 29) Passivation of Silicon interface with hydrogen for enhancing the lives of CMC architectures - Docket Number: - 260713, Filed on 30-JAN-15, Other inventors:
- 30) Nano-silicon burst injections via compressed air through pressurised inner core for recession mitigation of FOD/DOD-hit damaged CMC buckets.
Docket Number: - 258782, Filed on 29-JAN-15, Other inventors:
- 31) Super hydrophobic SiC nanowires for enhanced life of CMC architectures
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- 32) Compositional design to reduce the devitrification of TGO during thermal cycling
Docket Number: - 259019, Filed on 26-JAN-15, Other inventors:
- 33) Pocket wireless display – 61975898, Filed on: 06-APR-2014
- 34) Multi-foldable, flexible pocket wireless display - 62101990, Filed on: 10-JAN-2015