DirectoryInventor.com

Somakumar R

Technology Development Manager at GE Idea Works
Research
http://www.directoryinventor.com/profile/view/UHiGYiEc

Experience

Technology Development Manager

GE Idea Works
Research
September 2012 - Present

Manager, Electromagnetic Systems Lab

GE Global Research
10,001+ employees; Public Company; Research
2005 - Present

Driving technology developments in the area of electromagnetic systems and has had the opportunity to develop several novel concepts. Major areas of focus are contactless power transfer, leveraging electrical machines to capture the health of connected mechanical systems, rotating field based electrical impendence spectroscopy, designing electrical machines for specific electrical or mechanical loads, applications of resonating and rotating fields, electromagnetic spectroscopy for diagnostics. Many of the technologies developed are in GE products and most of them are in the process of transitioning through NPIs.

Education

CFA Charter, India

Business Finance, Investment and Financial Analysis
2008 - 2012

Indian Institute of Technology, Bombay

Neural Network for Nonlinear Control System Design
1995 - 2000

Patents (47)

System and method for contactless power transfer in implantable devices

Adnan Kutubuddin Bohori, Somakumar Ramachandrapanicker, Suma Memana Narayana Bhat
September 30, 2014: 08849402

[en] SYSTEM AND METHOD FOR PREDICTING MECHANICAL FAILURE OF A MOTOR
LU YINGHUI , KUMAR AJITH KUTTANNAIR , BANERJEE ARIJIT , MUKHERJEE RUPAM , RAMACHANDRAPANICKER SOMAKUMAR , BOYANAPALLY SRILATHA , KATTA MOHAN KUMAR
May 14, 2014: 2729323-A1

Contactless power transfer system and method (3 worldwide citation)
Adnan Kutubuddin Bohori, James William Bray, Somakumar Ramachandrapanicker, Suma Memana Narayana Bhat
March 18, 2014: 08674550

[en] SYSTEM AND METHOD FOR CONTACTLESS POWER TRANSFER IN IMPLANTABLE DEVICES
BOHORI ADNAN KUTUBUDDIN, BHAT SUMA MEMANA NARAYANA, RAMACHANDRAPANICKER SOMAKUMAR
January 29, 2014: 2688643-A1

Systems and methods for diagnosing an engine (1 worldwide citation)
Ajith Kumar, Somakumar Ramachandrapanicker, Paul Flynn, Arijit Banerjee, Rupam Mukherjee
January 7, 2014: 08626372

Systems and methods for diagnosing auxiliary equipment associated with an engine
Ajith Kumar, Somakumar Ramachandrapanicker, Paul Flynn, Arijit Banerjee, Rupam Mukherjee
January 7, 2014: 08626371

System and method for contactless power transfer in portable image detectors (3 worldwide citation)
Adnan Kutubuddin Bohori, Suma Memana Narayana Bhat, Somakumar Ramachandrapanicker, Jeffrey Neal Slotnick
October 8, 2013: 08552595

Systems and methods for diagnosing an engine (1 worldwide citation)
Ajith Kumar, Somakumar Ramachandrapanicker, Paul Flynn, Arijit Banerjee, Rupam Mukherjee
September 17, 2013: 08538626

SYSTEM AND METHOD FOR LOCOMOTIVE ADHESION CONTROL
HOUPT PAUL KENNETH, MCGARRY JEREMY THOMAS, KUMAR AJITH KUTTANNAIR, WORDEN BRET DWAYNE, DAIGLE JEFFREY LOUIS, RAMACHANDRA PANICKER SOMAKUMAR, RYALI VENKATARAO
June 4, 2013: 2613519

Contactless power transfer system (1 worldwide citation)
Adnan Kutubuddin Bohori, Somakumar Ramachandrapanicker, Christof Martin Sihler, Arvind Kumar Tiwari, Suma Memana Narayana Bhat
May 14, 2013: 08441153

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