

**A. List of patents taken: 15 ( 9 granted 6 filed)**

1. “SHS processing of ZrB<sub>2</sub>. Powder”-S.K. Mishra, S. Das, R.P. Goel, RamachandraRao
  - a. US patent ( US 6908599)
  - b. European countries ( EP 20-03-2003)
  - c. Japan patent ( JP 20-03-2003) is filed,
  - d. Indian patent sealed. 2129/DEL/97.
2. “Process on Alumina- Boride composite-S. K.Mishra, Vladmir Shcherbakov”.
  - a. US patent ( 0238NF2003) Granted
  - b. Indian patent filed (1654/DEL/) 2004 granted
3. Fabrication of tailored hardness nano-composite coating with low coefficient of friction, 0770DEL2010, Granted
4. Development of Zn-Ni-Cu coatings on CRM sheets for anti bacterial and fuel tank applications., **jointly with Tatasteel**, 1401/KOL/2012. Granted.
5. An improved process for the production of zirconium boride and titanium boride powder by single step carbothermal process, 0151NF2015
6. Corrosion resistant and low embrittlement aluminum alloy coatings on steel by magnetron sputtering.
  - a. US 2018 0355470 A1 **Boeing USA jointly with NML**, 2016,
  - b. 2018 (**US and European patent filed**)
7. S Gaydos, Ijeri Vijaykumar, Om Prakash, Suman Mishra, R. Singh, S.Paswan,L.C. Pathak, USPatent 10,577,686
8. Hot-dip Al-Si-Mg-Cu-Sc coatings on steel sheet with excellent in corrosion resistance as well as hot forming application and process for the production thereof, jointly with Tatasteel **2018, PAT-0531/2018/IN**
9. Corrosion resistant and low embrittlement aluminum alloy coatings on steel by magnetron sputtering, Stephen P Gaydos, Vijaykumar S Ijeri, Om Prakash, Suman K Mishra, Raghuvir Singh, Sharma Paswan, Lokesh C Pathak, Publication date 2020/7/2, US16803797
10. Organic/inorganic composite Self -healing anticorrosive coatings and a process for preparation thereof. AK. Mohanty and S.K.Mishra, 20211100215.