Taking materials from the lab to industry

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Theory of Condensed Matter Group, Department of Physics
Modern material discoveries
Materials case study: rubber

Energy in elastic band: 0.5 J
| Energy in elastic band         | 0.5 J |
| Energy in bullet              | 225 J |
Materials case study: rubber

Energy in elastic band  
0.5 J

Energy in bullet  
225 J

Energy in enormous band  
250 J
Materials alchemy

- Strength
- Cost
- Weight
Materials design

- Strength
- Cost
- Weight
Alloys developed

Method and system for designing a material
EP14153898.3, US 2014/177578, GB1302743.8

Molybdenum-hafnium alloys for high temperature applications
EP14161255.6, US 2014/223465, GB1307533.8

Molybdenum-niobium alloys for high temperature applications
EP14161529.4, US 2014/224885, GB1307535.3

A nickel alloy
EP14157622.3, US 2013/0052077 A2, GB1408536.9
Materials discovery with Rolls Royce
Business plan

Materials discovery with Rolls Royce

Generalization with Samsung and BP
Business plan

Materials discovery with Rolls Royce

Generalization with Samsung and BP

Exit strategy