

## **Cast Aluminum Alloys having Improved Microstructural Stability and Strength at 350 °C**

### **Disclosure Number**

201503569

### **Technology Summary**

The present invention comprises compositions of cast aluminum alloys that have stable microstructures up to 350 °C. The stable microstructures also provide exceptional mechanical properties at elevated temperature and therefore, engine cylinder heads with higher maximum operating temperature can be designed with these new alloys.

### **Inventor**

SHYAM, AMIT  
Materials Science and Technology Div

### **Licensing Contact**

FRANCO, NESTOR E  
UT-Battelle, LLC  
Oak Ridge National Laboratory  
6196  
1 Bethel Valley Road  
Oak Ridge, TN 37831

Office Phone: (865) 574-0534

E-Mail: [FRANCONE@ORNL.GOV](mailto:FRANCONE@ORNL.GOV)