

## **Low-Cost Fe-Ni-Cr Alloys for High Temperature Valve Applications**

### **Disclosure Number**

201303072

### **Technology Summary**

The present invention is directed to the development of high strength Fe-Ni-Cr alloys for exhaust valve applications in high efficiency automotive and diesel engines. The newly developed alloys have the potential to have improved high temperature fatigue properties at certain stress levels in comparison to high Ni alloys currently used in such applications. Thus the new alloys have attractive properties and are lower in cost than exhaust valve alloys currently used in high efficiency automotive engines.

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