OAK RIDGE NATIONAL LABORATORY
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Bulk Nanostructured Composite Bonded Magnets

Disclosure Number

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Technology Summary

The present invention comprises a process for making bonded magnets by pressing ferromagnetic nanoparticles that have been coated with a reactive polymer, into a mold of arbitrary shape. These bonded composite magnets, which use low-cost, abundant precursors without supply risks, could become a less expensive replacement for magnets containing rare earth elements, which are commonly used in a wide range of applications that include consumer products, transportation components, wind turbine generators and hybrid vehicle regenerative motors.

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Note: The technology described above is an early stage opportunity. Licensing rights to this intellectual property may be limited or unavailable. Patent applications directed towards this invention may not have been filed with any patent office.