1. Background

- At power plants and aircraft industry, the thermal efficiency increases with increasing operation temperature. Therefore, the superalloys, which can resist high-temperatures, are strongly required.
- Both high manufacturability and high workability are demanded at the same time.
- In some applications, the wear resistance at high temperatures is also required.

2. Enhanced Creep Resistance of a New Co-Al-W Alloy

- The wrought alloys, which have high creep resistance, are expected to be used widely, i.e., turbine engine components, auto parts.
- The cast alloys, which also resist abrasions, are expected to be used at several machining fields, i.e., FSW tool.

3. Prospective Applications

**Wrought Alloys**: application examples

- The wrought alloys by this technology, which have high creep resistance, are expected to be used widely, i.e., turbine engine components, auto parts.
- The cast alloys by this technology, which also resist abrasions, are expected to be used at several machining fields, i.e., FSW tool.

4. Patent Licensing Available


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