COBALT-CHROMIUM ALLOY RESISTANT TO HIGH SPEED/SELF-COUPLED SLIDING WEAR

ABSTRACT

A wrought-able, cobalt-based alloy is disclosed which has extraordinary resistant to high speed/self-coupled sliding wear. This alloy contains about 0.83 wt.% nickel, about 0.125 wt.% nitrogen, about 26.85 wt.% chromium, about 4.58 wt.% molybdenum, about 2.33 wt.% tungsten, about 2.97 wt.% iron, about 0.84 wt.% manganese, about 0.27 wt.% silicon, about 0.065 wt.% carbon, and about 0.11 wt.% aluminum, with the balance cobalt plus impurities

[FIG. 1]