

[Document Type] Abstract

[Title of the Invention] BEARING PART, STEEL FOR BEARING PART AND METHOD FOR PRODUCING THEREOF

A bearing part according the present invention includes: C: 0.95% to 1.10%; Si: 0.10% to 0.70%; Mn: 0.20% to 1.20%; Cr: 0.90% to 1.60%; Al: 0.010% to 0.100%; N: 0.003% to 0.030%; P: 0.025% or less; S: 0.025% or less; O: 0.0010% or less; optionally one or more of the group consisting of Mo: 0.25% or less, B: 0.0050% or less, Cu: 1.0% or less, Ni: 3.0% or less, and Ca: 0.0015% or less; and a remainder including Fe and impurities; wherein a metallographic structure includes a retained austenite, a spherical cementite and a martensite; in which an amount of the retained austenite is 18% to 25%, by volume%; an average grain size of a prior-austenite is 6.0 μm or less; an average grain size of the spherical cementite is 0.45 μm or less; and a number density of the spherical cementite is $0.45 \times 10^6 \text{ mm}^{-2}$ or more in the metallographic structure.

FIG. 6