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(54) Title: A WEAR RESISTANT ALLOY

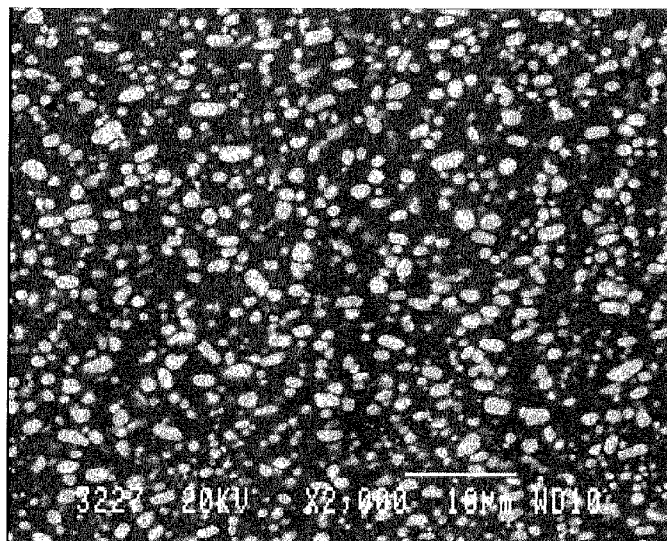


Fig. 1. Microstructure of the inventive alloy. The white phase is Mo₂FeB₂. The length of the bar is 10 μm.

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(57) Abstract: The invention relates to an alloy produced by powder metallurgy and having a non-amorphous matrix, the alloy consists of in weight % (wt.%): C 0-2.5 Si 0-2.5 Mn 0-15 Cr 0-25 Mo 4-35 B 0.2-2.8 optional elements, balance Fe and/or Ni apart from impurities, wherein the alloy comprises 3-35 volume % hard phase particles, the hard phase particles comprises at least one of borides, nitrides, carbides and/or combinations thereof, at least 90 % of the hard phase particles have a size of less than 5 μm and at least 50 % of the hard phase particles have a size in the range of 0.3 - 3 μm .