

Title (en)
PROCESS FOR PRODUCING ALLOY STEEL POWDER

Publication
EP 0108175 B1 19880113 (EN)

Application
EP 82305820 A 19821102

Priority
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Abstract (en)
[origin: EP0108175A1] A process for producing alloy steel powder, particularly, low-oxygen, low-carbon alloy steel powder is disclosed. The process comprises: preparing molten steel which contains at least one easily oxidizable element selected from the group consisting of chromium, manganese, vanadium, niobium, boron and silicon; atomizing said molten steel by means of an atomizing agent containing a non-oxidizing medium to provide as-atomized alloy steel powder containing 0.2% by weight or less of oxygen and 0.1% by weight or more of carbon; decarburizing the resulting powder by maintaining it in an atmosphere containing at least H₂ and H₂O gases under specified conditions; and cooling the thus decarburized alloy steel powder to room temperature in an inert or reducing atmosphere.

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B22F 1/145 (2022.01 - EP US); **B22F 9/082** (2013.01 - EP US); **B22F 2999/00** (2013.01 - EP)

Citation (examination)
GB 1236271 A 19710623 - SMITH CORP A O [US]

Cited by
US6146439A; US6364928B1; CN104148657A; JP6164387B1; KR20180021861A; US7161689B2; WO9741986A1; WO2017051541A1

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