

Title (en)

IMPLANTATION OF MOLYBDENUM DISULFIDE INTO CERTAIN METALLIC SURFACES BY MECHANICAL INCLUSION.

Title (de)

IMPFGUNG VON MOLYBDENDISULFID IN BESTIMMTE METALLOBERFLÄCHEN DURCH MECHANISCHES EINSCHLIESSEN.

Title (fr)

IMPLANTATION DE BISULFURE DE MOLYBDENE DANS CERTAINES SURFACES METALLIQUES PAR INCLUSION MECANIQUE.

Publication

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Application

EP 82901482 A 19820409

Priority

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Abstract (en)

[origin: WO8203575A1] MoS₂ is applied to medium to high carbon and stainless steels after surface voids have been produced in the material, as by a final annealing operation, but before a final cold working operation reduces the material to finished size. The latter operation embeds or includes the MoS₂ into the material and thereby provides a superior lubricated steel for piston ring, shaft, valve stem, spring, stranded wire and the like applications. The technique involved may also employ corrosion inhibiting agents to increase resistance to corrosion of the steel as well as to improve its lubricity.

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Citation (search report)

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- [A] US 4088585 A 19780509 - KARPEN WILLIAM L
- [A] FR 2069321 A5 19710903 - AMERICAN METAL CLIMAX INC
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