

Publication

EP 0557531 A4 19940202

Application

EP 92918876 A 19920904

Priority

JP 25312791 A 19910904

Abstract (en)

[origin: WO9305199A1] An aluminum alloy sheet for automotive bodies, wherein the alloy contains 2-10 wt.% of magnesium and the sheet comprises a metallic aluminum base, an aluminum phosphate coating formed thereon, an aluminum oxide coating further formed thereon, and further, if necessary, an oily layer formed as the uppermost layer. A process for producing the above sheet which comprises the steps of treating a sheet of an aluminum alloy containing 2-10 wt.% of magnesium with an acid having a pH of 4 or less to remove the magnesium oxide coating from the surface of the sheet, treating the resultant sheet with a phosphate solution to form an aluminum phosphate coating between the metallic base and the aluminum oxide coating, and further, if necessary, forming an oily layer as the uppermost layer.

IPC 1-7

C23C 28/00

IPC 8 full level

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CPC (source: EP KR)

C23C 22/07 (2013.01 - KR); **C23C 22/68** (2013.01 - EP); **C23C 22/78** (2013.01 - EP KR); **C23C 28/00** (2013.01 - EP); **C23C 28/044** (2013.01 - EP)

Citation (search report)

- [X] EP 0281176 A1 19880907 - METALLGESELLSCHAFT AG [DE]
- [PA] DE 4131382 A1 19920326 - KOBE STEEL LTD [JP], et al
- [A] FR 2133651 A1 19721201 - ALUSUISSE
- [X] PATENT ABSTRACTS OF JAPAN vol. 9, no. 237 (C - 305)<1960> 24 September 1985 (1985-09-24)
- [A] PATENT ABSTRACTS OF JAPAN vol. 9, no. 260 (C - 309)<1983> 17 October 1985 (1985-10-17)
- [A] PATENT ABSTRACTS OF JAPAN vol. 13, no. 579 (C - 668)<3927> 20 December 1989 (1989-12-20)
- [A] PATENT ABSTRACTS OF JAPAN vol. 14, no. 149 (C - 705)<4092> 22 March 1990 (1990-03-22)
- See references of WO 9305199A1

Cited by

CN104404486A; FR2841262A1; CN102560490A; US9669604B2; WO2004001096A3

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