

Title (en)
WIPER ARM

Title (de)
WISCHARM

Title (fr)
BRAS D'ESSUIE-GLACE

Publication
EP 0929422 A2 19990721 (DE)

Application
EP 98946257 A 19980805

Priority
• DE 9802251 W 19980805
• DE 19735301 A 19970814

Abstract (en)
[origin: DE19735301A1] At least one of the hinged wiper sections formed from sheet metal has at least one area with several folded over material layers. The metal parts are manufactured from one-piece sheets with contoured faces and fold faces, with the fold faces lying in rectangle defined by the contoured faces. The hinged section may have several folded-over material layers in the area of its connection to the wiper rod. Also included is a method for the manufacture of wiper arm sections from sheet metal in which areas are folded over singly or multiply by approximately 180 degrees, and in several stages.

IPC 1-7
B60S 1/32

IPC 8 full level
B60S 1/32 (2006.01); **B60S 1/34** (2006.01)

CPC (source: EP KR US)
B60S 1/32 (2013.01 - EP KR US); **B60S 1/34** (2013.01 - EP KR US); **B60S 1/3434** (2013.01 - EP US)

Citation (search report)
See references of WO 9908911A2

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
DE 19735301 A1 19990218; BR 9806093 A 19990824; EP 0929422 A2 19990721; JP 2001502640 A 20010227; KR 20000068765 A 20001125; US 6505377 B1 20030114; WO 9908911 A2 19990225; WO 9908911 A3 19990506

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DE 19735301 A 19970814; BR 9806093 A 19980805; DE 9802251 W 19980805; EP 98946257 A 19980805; JP 51264799 A 19980805; KR 19997003235 A 19990414; US 28439999 A 19990601