

Title (en)
TUBESHEET FOR A LEAD-ACID BATTERY

Title (de)
ROHRPLATTE FÜR EINE BLEI-SÄURE-BATTERIE

Title (fr)
PLAQUE TUBULAIRE POUR UNE BATTERIE PLOMB-ACIDE

Publication
EP 2304826 A1 20110406 (DE)

Application
EP 09780574 A 20090714

Priority
• EP 2009058999 W 20090714
• DE 102008034587 A 20080725

Abstract (en)
[origin: WO2010010008A1] Tubesheet for an electrode, preferably a positive electrode, of a lead-acid battery, wherein the tubesheet (2) comprises an upper frame (3) and a plurality of lead or lead alloy cores (1) that extend substantially parallel from the upper frame (3). In order to provide a tubesheet for an electrode of a lead-acid battery, wherein the tubesheet achieves a lower current density and shorter current paths or diffusion paths for lowering the electrical resistance in comparison to prior art tubesheets with the same material selection, the invention proposes to provide the cores (1) with a surface profile with at least (3) convex sections (11) and at least (3) concave sections (12) in cross section to the longitudinal length of the cores wherein convex and concave sections (11, 12) alternate over the course of the surface profile.

IPC 8 full level
H01M 4/20 (2006.01); **H01M 4/66** (2006.01); **H01M 4/72** (2006.01); **H01M 4/75** (2006.01); **H01M 4/76** (2006.01)

CPC (source: EP US)
H01M 4/20 (2013.01 - EP US); **H01M 4/72** (2013.01 - EP US); **H01M 4/75** (2013.01 - EP US); **H01M 4/767** (2013.01 - EP US); **H01M 4/668** (2013.01 - EP US); **Y02E 60/10** (2013.01 - EP)

Citation (search report)
See references of WO 2010010008A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
DE 102008034587 A1 20100128; EP 2304826 A1 20110406; US 2011165448 A1 20110707; WO 2010010008 A1 20100128

DOCDB simple family (application)
DE 102008034587 A 20080725; EP 09780574 A 20090714; EP 2009058999 W 20090714; US 99791709 A 20090714