

Title (en)
TROLLEY CASE

Title (de)
ROLLKOFFER

Title (fr)
VALISE À ROULETTES

Publication
EP 4062792 A4 20230426 (EN)

Application
EP 21893123 A 20211201

Priority
• CN 202011381257 A 20201201
• CN 202110525452 A 20210513
• CN 2021134768 W 20211201

Abstract (en)
[origin: EP4062792A1] Provided is a trolley case, including an upper shell and a lower shell hinged to the upper shell, an inner side of the upper shell and an inner side of the lower shell being each provided with a reinforcing strip, the reinforcing strip being disposed at an inner periphery near an opening of each of the upper shell and the lower shell, and when the upper shell and the lower shell are closed together, the reinforcing strips disposed on the inner side of the upper shell and the inner side of the lower shell forming a support area to prevent the upper shell and the lower shell from deforming and to jointly support a case body. A clearance space exists between the reinforcing strip and the inner periphery of the upper shell or the inner periphery of the lower shell, the reinforcing strip includes strip sheets and connecting blocks, each connecting block connecting two adjacent strip sheets, and the strip sheets and the connecting blocks are alternately arranged, where the strip sheet forms a hollow space together with the inner side of the upper shell or the inner side of the lower shell, and a reinforcing block is provided between the strip sheet and the inner periphery of the upper shell or the inner periphery of the lower shell. By providing the hollow space via the strip sheets, the connecting blocks between adjacent strip sheets, and the reinforcing blocks, the reinforcing strip can have an appropriate strength with hollow structures, thus reducing an overall mass of the case body and preventing deformation of the case body.

IPC 8 full level
A45C 5/00 (2006.01); **A45C 5/03** (2006.01); **A45C 5/14** (2006.01); **A45C 13/04** (2006.01); **A45C 13/36** (2006.01)

CPC (source: EP)
A45C 13/04 (2013.01); **A45C 13/36** (2013.01); **A45C 5/14** (2013.01); **A45C 2005/037** (2013.01)

Citation (search report)
• [XIA] EP 3338588 B1 20191009 - ITP HEYUAN LUGGAGE CO LTD [CN]
• [XIA] CN 207506100 U 20180619 - ITP HE YUAN LUGGAGE CO LTD
• [AIX] CN 209644174 U 20191119 - SICHUAN CHANGHONG MOLD & PLASTIC TECH CO LTD
• [A] US 2015027835 A1 20150129 - MOON JERRY [TW]
• [A] US 6345709 B1 20020212 - CHENG KOON-MING [TW]
• [A] WO 2017082586 A1 20170518 - CARIMAX CORP [KR]
• [A] EP 3646751 A1 20200506 - SAMSONITE IP HOLDINGS SARL [LU]
• See also references of WO 2022116993A1

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4062792 A1 20220928; EP 4062792 A4 20230426; WO 2022116993 A1 20220609

DOCDB simple family (application)
EP 21893123 A 20211201; CN 2021134768 W 20211201