

Title (en)
ANTI-TURNING UMBRELLA FRAME

Title (de)
SCHIRMGESTELL MIT UMSCHLAGSCHUTZ

Title (fr)
ARMATURE DE PARAPLUIE ANTI-RETOURNEMENT

Publication
EP 3338587 A1 20180627 (EN)

Application
EP 17208263 A 20171218

Priority
TW 105142942 A 20161223

Abstract (en)
An anti-turning umbrella frame is revealed. The anti-turning umbrella frame includes a plurality of inner main ribs, a plurality of inner connecting ribs, a plurality of middle main ribs, and a plurality of stretchers. An outer end of the inner main rib is riveted to an inner end of the middle main rib to form a first rivet point. The anti-turning umbrella frame features on that a positioning portion is disposed on an inner side of the first rivet point of the inner main rib while a locking portion corresponding to the positioning portion is arranged at or close to the outer end of the inner connecting rib. The locking portion is locked with the positioning portion while the umbrella frame is opened. Thereby the inner main rib and the middle main rib are connected to form a rigid body for preventing the middle main rib from turning over.

IPC 8 full level
A45B 25/22 (2006.01); **A45B 19/10** (2006.01); **A45B 25/02** (2006.01)

CPC (source: EP)
A45B 19/10 (2013.01); **A45B 25/02** (2013.01); **A45B 25/22** (2013.01)

Citation (search report)

- [A] GB 2178309 A 19870211 - HAUSTLE PRODUCTS INC
- [A] US 6244284 B1 20010612 - WANG MAX [TW]
- [A] US 6758228 B1 20040706 - YOU CHING-CHUAN [TW]
- [A] JP 2000125914 A 20000509 - HIRAIWA EIJI
- [A] JP S4732154 U 19721211

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

DOCDB simple family (publication)
EP 3338587 A1 20180627; **EP 3338587 B1 20191127**; JP 2018102919 A 20180705; JP 7061870 B2 20220502; TW 201822669 A 20180701; TW I594710 B 20170811

DOCDB simple family (application)
EP 17208263 A 20171218; JP 2017243012 A 20171219; TW 105142942 A 20161223