

Title (en)

UNFOLDABLE AND FOLDABLE OR FIXED PROTECTIVE CANOPY STRUCTURE

Title (de)

AUF- UND ZUSAMMENFALTBARE ODER FEST INSTALLIERTE SCHIRMKONSTRUKTION

Title (fr)

CONCEPT DE TOILE DE PROTECTION DEPLIABLE ET REFERMABLE OU FIXE

Publication

EP 1610639 A1 20060104 (DE)

Application

EP 04722569 A 20040323

Priority

- EP 2004003065 W 20040323
- DE 20305166 U 20030331
- DE 20305168 U 20030331
- DE 10360864 A 20031223

Abstract (en)

[origin: WO2004086898A1] Previously known protective canopy structures which discharge accumulating rain water in an outward direction are characterized in that the members (30) required for stretching the canopy area (10) are entirely or partly disposed below the canopy area (10), a setup which has the disadvantage of the members (30) spoiling the esthetic appearance while the use of the canopy area (10) as an advertising surface or reflecting surface is restricted from below. The aim of the invention is not to affect the canopy area (10) from below. Said aim is achieved by arranging all members (30) required for opening the protective canopy structure exclusively above the canopy area, resulting in a large variety of embodiments which mainly show the applicability of the invention to many different canopy areas and opening mechanisms. The inventive protective canopy structures are particularly suitable for fields of application in which the view of the protective canopy structure from below is very important as the space located below is to be enhanced and the canopy area (10) is to be used as an advertising surface or reflecting surface from below. Said protective canvas structures are suitable for use in restaurants, at vending stands, at beaches, or in a private context, the smallest application relating to umbrellas.

IPC 1-7

A45B 25/02; A45B 11/00

IPC 8 full level

A45B 11/00 (2006.01); **A45B 19/04** (2006.01); **A45B 23/00** (2006.01); **A45B 25/02** (2006.01); **A45B 25/14** (2006.01); **A45B 3/04** (2006.01);
A45B 25/06 (2006.01); **A45B 25/18** (2006.01)

CPC (source: EP US)

A45B 11/00 (2013.01 - EP US); **A45B 19/04** (2013.01 - EP US); **A45B 23/00** (2013.01 - EP US); **A45B 25/02** (2013.01 - EP US);
A45B 25/14 (2013.01 - EP US); **A45B 3/04** (2013.01 - EP US); **A45B 25/06** (2013.01 - EP US); **A45B 25/18** (2013.01 - EP US);
A45B 2019/004 (2013.01 - EP US); **A45B 2023/0012** (2013.01 - EP US); **A45B 2023/0018** (2013.01 - EP US); **A45B 2023/0037** (2013.01 - EP US);
A45B 2023/0093 (2013.01 - EP US); **A45B 2200/1018** (2013.01 - EP US)

Citation (search report)

See references of WO 2004086898A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2004086898 A1 20041014; AT E339124 T1 20061015; DE 502004001491 D1 20061026; EP 1610639 A1 20060104;
EP 1610639 B1 20060913; ES 2273237 T3 20070501; JP 2006521850 A 20060928; US 2007095374 A1 20070503; US 7513267 B2 20090407

DOCDB simple family (application)

EP 2004003065 W 20040323; AT 04722569 T 20040323; DE 502004001491 T 20040323; EP 04722569 A 20040323; ES 04722569 T 20040323;
JP 2006504819 A 20040323; US 55090804 A 20040323