

Title (en)

UNSUPPORTED, BRACED ARCH ELEMENT AND PROTECTING ROOF WITH SUCH AN ELEMENT

Title (de)

SPANNBARE FREILAGERNDE BOGENVORRICHTUNG UND SCHUTZDACH MIT EINER SOLCHEN

Title (fr)

VOUTE NON SOUTENUE POUVANT ETRE TENDUE ET TOIT DE PROTECTION POURVU D'UNE TELLE VOUTE

Publication

**EP 0795069 A1 19970917 (DE)**

Application

**EP 96924731 A 19960807**

Priority

- CH 9600277 W 19960807
- CH 228495 A 19950808

Abstract (en)

[origin: WO9706326A1] An arch element (1") for protecting roofs has at least one tubular arch (2) held in the curved state by at least one brace (4). The ends of arch and brace (2, 4) are interconnected by end connectors (3). In order to keep the brace (2) out of the direct connection between both end connectors (3) and to guide it along the arch (2) at a certain distance thereof, a flat connecting part (5) is arranged between and joined to arch and brace (2, 4). By using three arches (2), two braces (4) designed as bracing booms, four fabric or plastic connecting surfaces (5) that join the braces (4) to the arches (2), and three spacers (10) that keep the outer arches (2) apart, an unsupported, dimensionally stable three-dimensional arch element (1") is obtained that may be used directly as a shade or associated to other arch elements to carry roof surfaces. By using arches (2), spacers (10) and end connectors (3) that can be plugged into each other, the arch element (1") may be dismantled.

IPC 1-7

**E04H 15/40**; **E04B 1/32**

IPC 8 full level

**E04B 1/32** (2006.01); **E04H 15/40** (2006.01)

CPC (source: EP US)

**E04B 1/32** (2013.01 - EP US); **E04H 15/40** (2013.01 - EP US); **E04B 2001/3241** (2013.01 - EP US); **E04B 2001/3252** (2013.01 - EP US); **Y10S 135/906** (2013.01 - EP US)

Citation (search report)

See references of WO 9706326A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI NL PT

DOCDB simple family (publication)

**WO 9706326 A1 19970220**; AU 6511696 A 19970305; AU 719785 B2 20000518; CA 2201941 A1 19970220; EP 0795069 A1 19970917; US 5950649 A 19990914

DOCDB simple family (application)

**CH 9600277 W 19960807**; AU 6511696 A 19960807; CA 2201941 A 19960807; EP 96924731 A 19960807; US 81759197 A 19970404