

Title (en)  
Spider system

Title (de)  
Aufhängungssystem

Title (fr)  
Système de suspension

Publication  
**EP 2219170 A3 20101020 (EN)**

Application  
**EP 09179872 A 20091218**

Priority  
DK PA200801837 A 20081222

Abstract (en)  
[origin: EP2219170A2] This invention concerns a system for suspension of banners (1). The system comprises a plurality of flexible attachment means (5,7,9) corresponding to the number of attachment points on the banner (1), a plurality of sheaves (35,37,39,41), said sheaves (35,37,39,41) defines the attachment points of a geometrical figure, said geometrical figure is situated in a single plane, a plurality of wires (11,13,15,17) for stretching the banner (1), said number of wires (11,13,15,17) equals the number of sheaves (35,37,39,41), said wires (11,13,15,17) are at a first end attached to the flexible means (5,7,9), said wires at a second end interacts with at least one winch (31), said at least one winch (31) is capable of tightening and loosening the wires thereby suspending the banner (1) into a plane parallel with the single plane of the geometrical figure, each wire (11,13,15,17) interact with at least one sheave (35,37,39,41) between the first and second end of the wire, said winch (31) comprises an axis of rotation, said axis of rotation is perpendicular to the single plane, said winch (31) is situated in the single plane.

IPC 8 full level  
**G09F 7/18** (2006.01); **G09F 15/00** (2006.01); **G09F 17/00** (2006.01); **G09F 19/22** (2006.01)

CPC (source: EP)  
**G09F 7/18** (2013.01); **G09F 15/0025** (2013.01); **G09F 17/00** (2013.01); **G09F 19/22** (2013.01); **G09F 2007/1839** (2013.01); **G09F 2007/1886** (2013.01); **G09F 2015/0093** (2013.01); **G09F 2017/0041** (2013.01)

Citation (search report)  
• [X] US 2004173724 A1 20040909 - TOLNA STEFAN N [US]  
• [A] EP 1193669 A1 20020403 - ELLINGSEN JOHN PETTER [NO]  
• [A] FR 2816435 A1 20020510 - PAULIK [FR]

Cited by  
GB2512936A; GB2529631A; US2021217333A1; US10977968B2; WO2016030677A3

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)  
**EP 2219170 A2 20100818**; **EP 2219170 A3 20101020**; **EP 2219170 B1 20160810**; DK 177204 B1 20120604; DK 200801837 A 20100623; PL 2219170 T3 20170428

DOCDB simple family (application)  
**EP 09179872 A 20091218**; DK PA200801837 A 20081222; PL 09179872 T 20091218