

Title (en)  
INTEGRAL FIRE SAFETY SYSTEM IN HIGH-VOLTAGE SUBSTATIONS

Title (de)  
INTEGRALBRANDSCHUTZSYSTEM INNERHALB HOCHSPANNUNGSMSPANNANLAGEN

Title (fr)  
SYSTÈME INTÉGRAL DE SÉCURITÉ INCENDIE DANS LES SOUS STATIONS À HAUTE TENSION

Publication  
**EP 2075037 A1 20090701 (EN)**

Application  
**EP 07380391 A 20071227**

Priority  
EP 07380391 A 20071227

Abstract (en)  
The invention relates to a fire protection system providing integral safety which is supported by three protection levels complementary to one another in order to ensure the efficiency of the solution: - passive protection (provided by the containment means): physical elements for containing the fuel (oil) and retarders in the propagation of a possible fire; - active protection (provided by the detection and extinguishing means): fire detection and extinguishing elements integrated with the typical systems of the substation (ventilation, electrical protection systems,...) to locate, confine and extinguish a possible fire depending on the sector in question; and - remote surveillance (provided by means of digital high-definition equipment): elements integrated in the system which allow viewing the fire sector having a fire alarm at a certain time remotely and on-line as a result of the automatic pre-positioning of high-definition cameras before activations of elements of the fire detection system.

IPC 8 full level  
**A62C 3/16** (2006.01)

CPC (source: EP)  
**A62C 3/16** (2013.01)

Citation (search report)  
• [Y] DE 4410916 A1 19951005 - KLOECKNER MOELLER GMBH [DE]  
• [Y] US 6104301 A 20000815 - GOLDEN PATRICK E [US]  
• [A] WO 2004038826 A2 20040506 - SIMTION ADRIAN [US]  
• [A] DE 8913487 U1 19900301  
• [A] GB 155524 A 19201223 - CLEMENS GRAAFF  
• [A] AU 2002311399 A1 20040617 - JOHN WILLIAMS  
• [A] WO 0064020 A1 20001026 - PARK GIJU [KR], et al

Cited by  
CN111420327A; CN105513248A; CN114522363A; CN109045518A; CN109603038A; CN111080991A; CN114022850A; CN109568841A; CN113671867A; CN116983574A; CN114421327A; WO2021115343A1; US10016643B2; US11147995B2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK RS

DOCDB simple family (publication)  
**EP 2075037 A1 20090701**; AU 2008264224 A1 20090716; AU 2008264224 B2 20130207; CO 6130007 A1 20100219; MD 20090001 A2 20110630; MX 2009000036 A 20090626; NI 200800341 A 20120130; ZA 200810820 B 20091125

DOCDB simple family (application)  
**EP 07380391 A 20071227**; AU 2008264224 A 20081224; CO 08137215 A 20081226; MD 20090001 A 20081229; MX 2009000036 A 20090107; NI 200800341 A 20081223; ZA 200810820 A 20081223