

Title (en)

FIRE AND EXPLOSION PROTECTION METHOD IN A HIGH-BAY WAREHOUSE IN WHICH CHEMICAL HAZARDOUS MATERIALS ARE STORED, AND FIRE/EXPLOSION-PROTECTED HIGH-BAY WAREHOUSE

Title (de)

VERFAHREN ZUM BRAND- UND EXPLOSIONSSCHUTZ IN EINEM HOCHREGALLAGER FÜR CHEMISCHE GEFÄHRSTOFFE UND BRAND- UND EXPLOSIONSGESCHÜTZTES HOCHREGALLAGER

Title (fr)

PROCEDE DE PROTECTION CONTRE LES INCENDIES ET LES EXPLOSIONS DANS UN ENTREPOT A CHAMBRES TRES HAUTES POUR PRODUITS CHIMIQUES DANGEREUX ET ENTREPOT A CHAMBRES TRES HAUTES PROTEGE CONTRE LES INCENDIES ET LES EXPLOSIONS

Publication

EP 1601417 B1 20061122 (DE)

Application

EP 04717044 A 20040304

Priority

- EP 2004002168 W 20040304
- DE 10310439 A 20030311

Abstract (en)

[origin: WO2004080540A1] The invention relates to a fire and explosion protection method in a high-bay warehouse in which chemical hazardous materials and, in particular, VbF substances of classes A1 and B are stored. The inventive method involves: the reduction of the volume percent of oxygen in the atmosphere inside the warehouse by carrying out continuous inertization with an inert gas, particularly nitrogen, to a value ranging from 12.9 to 13.4 % by volume; monitoring the volume percent of oxygen in the atmosphere with the aid of oxygen detectors; ensuring a homogeneous distribution of the oxygen-reduced atmosphere in the warehouse; monitoring the volume percent of solvents in the atmosphere with the aid of solvent detectors; circulating the atmosphere of the warehouse by means of at least one circulating system; preventing, to the greatest possible extent, the use of ignition sources; removing gaseous substances from the atmosphere of the warehouse, and; preventing the concentration of dusts by installing filters in the at least one circulating system. The invention also relates to a corresponding high-bay warehouse.

IPC 8 full level

A62C 3/06 (2006.01)

CPC (source: EP US)

A62C 3/002 (2013.01 - EP US); **A62C 3/06** (2013.01 - EP US)

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 2004080540 A1 20040923; AT E345848 T1 20061215; DE 10310439 B3 20041209; DE 502004002089 D1 20070104; EP 1601417 A1 20051207; EP 1601417 B1 20061122; ES 2277243 T3 20070701; US 2008105443 A1 20080508

DOCDB simple family (application)

EP 2004002168 W 20040304; AT 04717044 T 20040304; DE 10310439 A 20030311; DE 502004002089 T 20040304; EP 04717044 A 20040304; ES 04717044 T 20040304; US 54769004 A 20040304