

Title (en)
BIS(GLYOXIME)-TRANSITION METAL COLORIMETRIC MOISTURE INDICATORS

Title (de)
KOLORIMETRISCHE FEUCHTIGKEITSANZEIGEN MIT EINEM (BIS-)GLYOXIM-ÜBERGANGSMETALL

Title (fr)
INDICATEURS D'HUMIDITÉ COLORIMÉTRIQUES À BASE DE BIS(GLYOXIME)-MÉTAL DE TRANSITION

Publication
EP 2831576 A1 20150204 (EN)

Application
EP 12791400 A 20121114

Priority
• US 2012030677 W 20120327
• US 2012065022 W 20121114

Abstract (en)
[origin: WO2013147934A1] Colorimetric moisture-indicating sensors comprising a solid polymeric support and a bis(glyoxime)-transition metal complex bound to the solid polymeric support are described. The solid polymeric support is a strong acid cation exchange resin. These colorimetric moisture-indicating compositions and sensors can be used to detect moisture. In some embodiments, detecting moisture comprises the sequential steps of (1) providing a colorimetric moisture-indicating sensor comprising a solid polymeric support and a bis(glyoxime)-transition metal complex bound to the support, and (2) exposing the composition to a moist atmosphere. A method of making a colorimetric moisture-indicating sensor comprising the sequential steps of (1) adsorbing transition metal ions onto a solid polymeric support, and (2) complexing a bis(glyoxime) to the adsorbed transition metal ions is also provided.

IPC 8 full level
G01N 31/22 (2006.01); **G01N 21/78** (2006.01)

CPC (source: EP)
G01N 21/78 (2013.01); **G01N 31/222** (2013.01)

Citation (search report)
See references of WO 2013147934A1

Citation (examination)
WO 2012154314 A1 20121115 - 3M INNOVATIVE PROPERTIES CO [US], et al

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2013147934 A1 20131003; CN 104335040 A 20150204; EP 2831576 A1 20150204; JP 2015515625 A 20150528; JP 6152166 B2 20170621

DOCDB simple family (application)
US 2012065022 W 20121114; CN 201280071859 A 20121114; EP 12791400 A 20121114; JP 2015503188 A 20121114