

## Title (en)

METAL POLYMERYLS AND THE POLYMER SOLUBILIZED SURFACES DERIVED THEREFROM

## Title (de)

METALLPOLYMERYLE UND DARAUS GEWONNENE POLYMERGELÖSTE OBERFLÄCHEN

## Title (fr)

POLYMÉRYLES MÉTALLIQUES ET SURFACES SOLUBILISÉES EN POLYMÈRE DÉRIVÉES DE CEUX-CI

## Publication

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## Application

**EP 13863793 A 20131209**

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## Abstract (en)

[origin: WO2014099440A1] Disclosed herein are certain propylene-based metal polymers and their use in modifying surfaces, and, in general, metal polymers used in modifying surfaces. In one aspect is a metal polymeryl comprising compounds having the general formula:  $MR_3-nR'n$ ; wherein each R group is a hydrogen or C1 to C10 or C20 alkyl, and each R' group is selected from propylene-based polymers having an Mn of at least 300 g/mole; n is 1, 2, or 3; and M is a Group 12 or 13 metal, preferably aluminum or zinc; wherein the first portion of the R' group bound to the metal M is a  $-CH_2CH_2-$  group, and the terminal portion of the R group is isobutyl. Surfaces that are modified or "solubilized" include particles of silica or alumina, glass, metal, clay and other hydroxyl-containing materials of all sizes.

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## Citation (search report)

- [XDY] US 2009318646 A1 20091224 - BRANT PATRICK [US], et al
- [Y] WO 2011016992 A2 20110210 - DOW GLOBAL TECHNOLOGIES INC [US], et al
- [A] YANJARAPPA M J ET AL: "Recent developments in the synthesis of functional poly(olefin)s", PROGRESS IN POLYMER SCIENCE, PERGAMON PRESS, OXFORD, GB, vol. 27, no. 7, 1 September 2002 (2002-09-01), pages 1347 - 1398, XP002510488, ISSN: 0079-6700, [retrieved on 20020410], DOI: 10.1016/S0079-6700(02)00011-4
- See references of WO 2014099440A1

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