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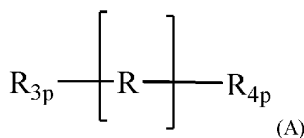
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(54) Title: POLYMER BRUSHES WITH CHAIN-ENDS FUNCTIONALIZED WITH METAL COORDINATING TWO HETERO
ELEMENTS FOR SELECTIVE SURFACE MODIFICATION



(A)

(57) Abstract: A polymer of structure (A) with two end group R_{3p} and R_{4p}, and a polymer
chain (R) which has either repeat units of structures (Ip) or (Iip). R_{3p} is either a C-1 to C-8
alkyl, a moiety of structure (IIp), or a moiety of structure (IIIp1). R_{3p} is a C-1 to C-8 alkyl
if the repeat unit is (Iip). R_{3p} is structure (IIp) or structure (IIIp1) if the repeat unit has (Ip).
R_{4p} is either a terminating moiety such as H, a moiety of structure (IVp), a moiety of structure
(IVp1), or a moiety of structure (IVp2). R_{3p} and R_{4p} cannot respectively, both simultaneously, be
moieties of structure (IIp) and (IVp), simultaneously be moieties of structure (IIp) and (IVp1),
or simultaneously be moieties of structure (IIp) and (IVp2). The polymer of structure (A) must
contain, one grafting end group moiety selected from structures (IIp), (IVp), (IVp1) or (IVp2).
Composition of this with a solvent are used in DSA processing.

WO 2024/038035 A2