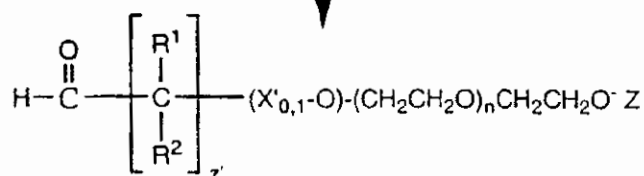


Acetal precursor having an anionic site, where M^+ is a metal counterion, and $(\text{X}'_{0,1}-\text{O})$ indicates a linker terminating in an alkoxide, where $\text{X}'_{0,1}-\text{O}$ when taken together may be simply "O", or the portion X' may comprise any of the herein described linkers or combinations of linkers.

terminate H^+/HOH
optionally end cap

hydrolyze to polymer alkanal



$\text{Z} = \text{H}$ or end-capping group

FIG. 1