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(19) **United States**(12) **Patent Application Publication****Mullick et al.**(10) **Pub. No.: US 2011/0207893 A1**(43) **Pub. Date: Aug. 25, 2011**(54) **THERMALLY STABLE BIURET AND ISOCYANURATE BASED SURFACE MODIFYING MACROMOLECULES AND USES THEREOF****Related U.S. Application Data**

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Publication Classification(75) Inventors: **Sanjoy Mullick**, Brampton (CA); **Weilun Chang**, Toronto (CA); **Alexandra Piotrowicz**, Toronto (CA); **Jeannette Ho**, Toronto (CA); **Richard Witmeyer**, Toronto (CA)(51) **Int. Cl.**
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B29C 71/02 (2006.01)(73) Assignee: **INTERFACE BIOLOGIS INC.**, TORONTO (CA)(52) **U.S. Cl.** **525/381**; 560/158; 544/192; 525/454; 525/474; 525/432; 525/535; 264/235(21) Appl. No.: **13/060,542**(57) **ABSTRACT**(22) PCT Filed: **Aug. 28, 2009**(86) PCT No.: **PCT/US09/55418**§ 371 (c)(1),
(2), (4) Date:**May 5, 2011**

The invention relates to surface modifying macromolecules (SMMs) having high degradation temperatures and their use in the manufacture of articles made from base polymers which require high temperature processing. The surface modifier is admixed with the base polymer to impart alcohol and water repellency properties.

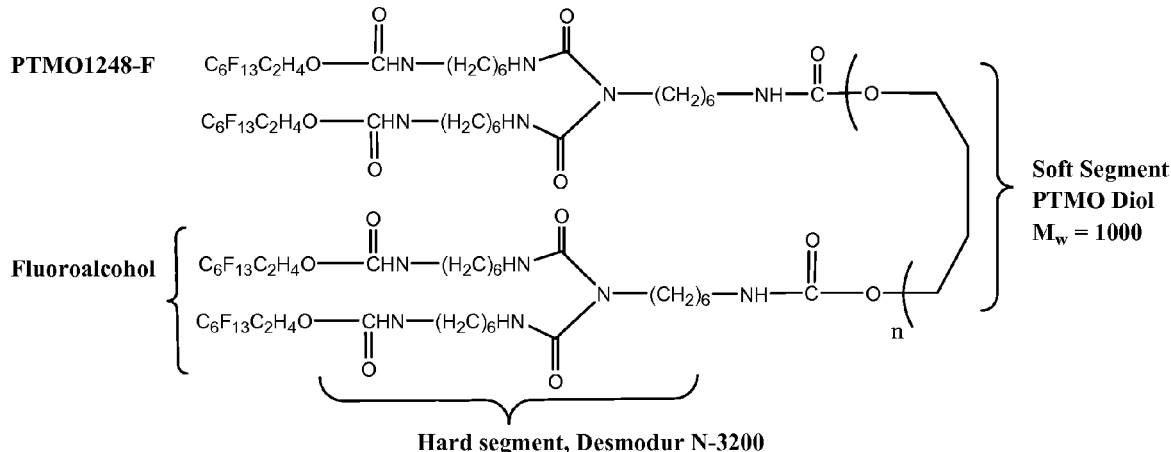
SMM1

Fig. 1a

SMM1

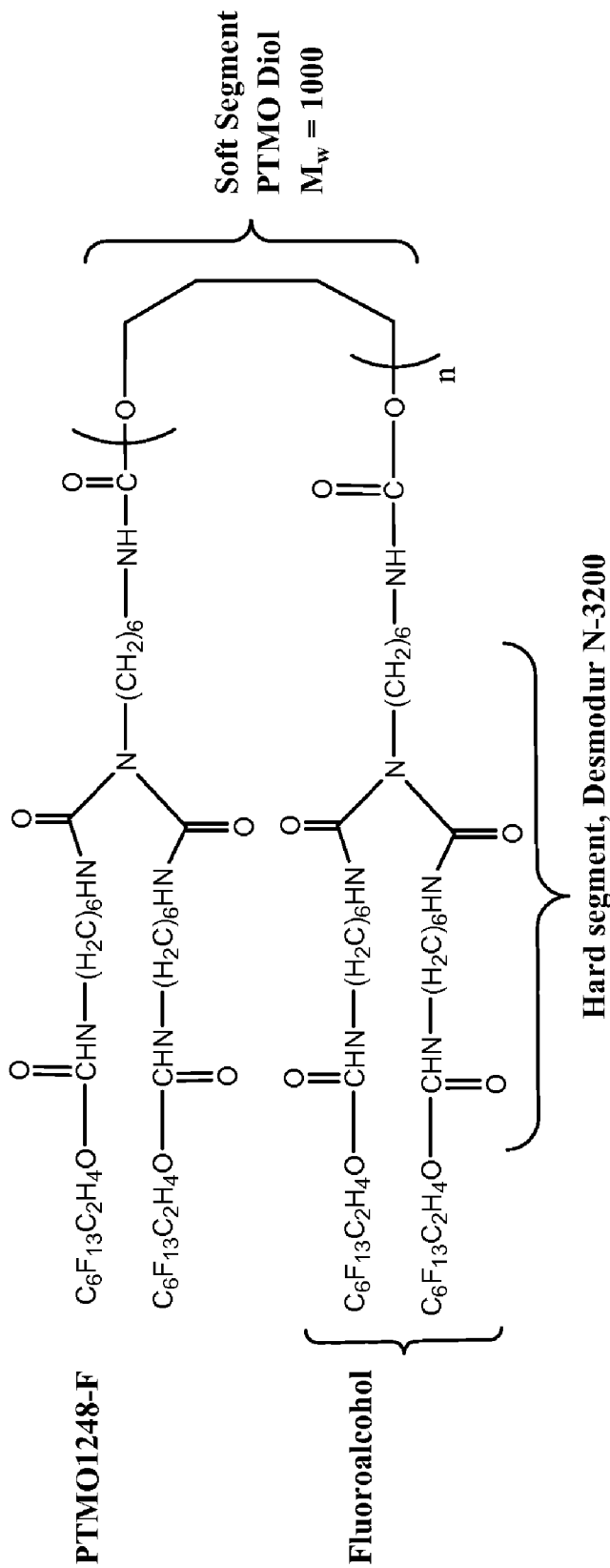


Fig. 1b

SMIM2

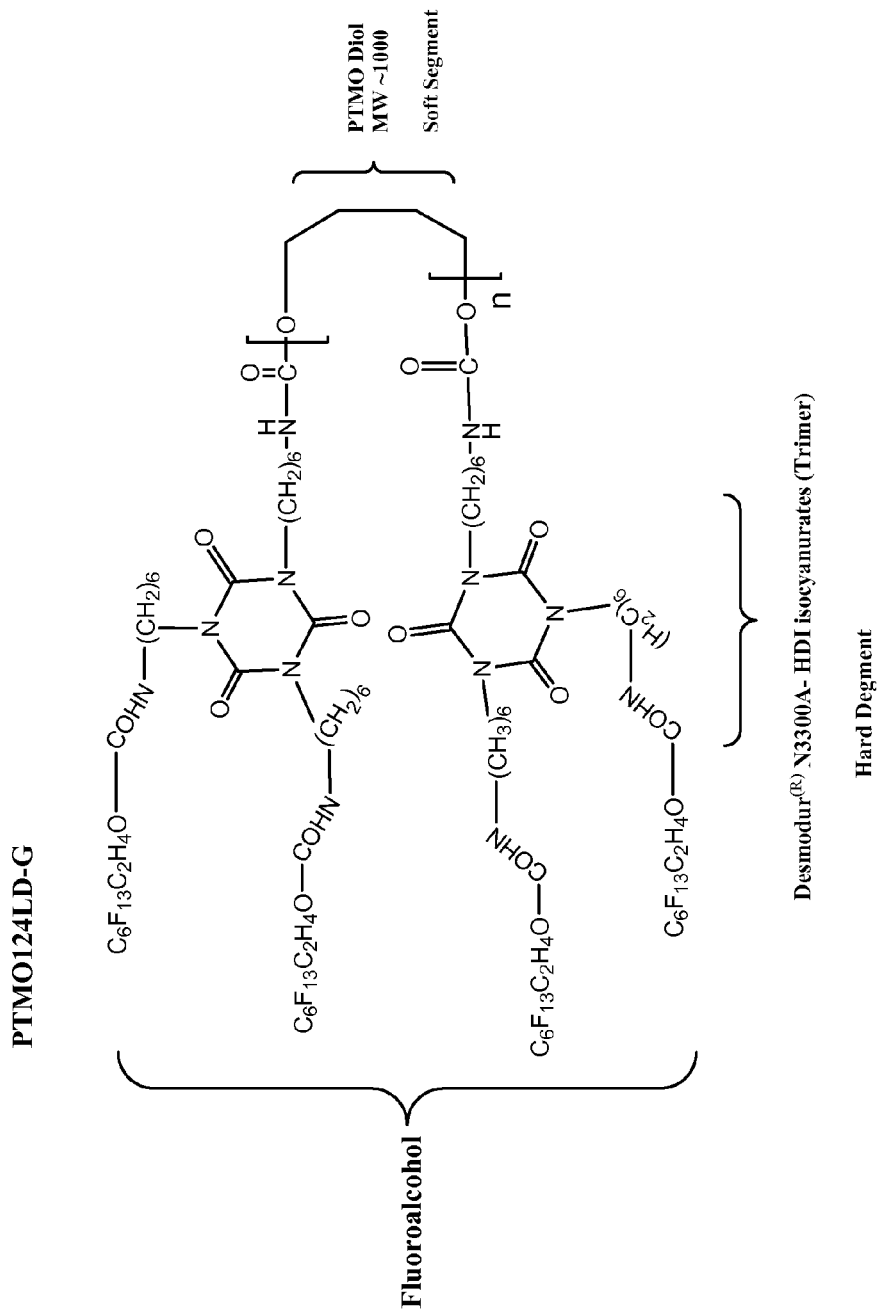


Fig. 1c

SMM3

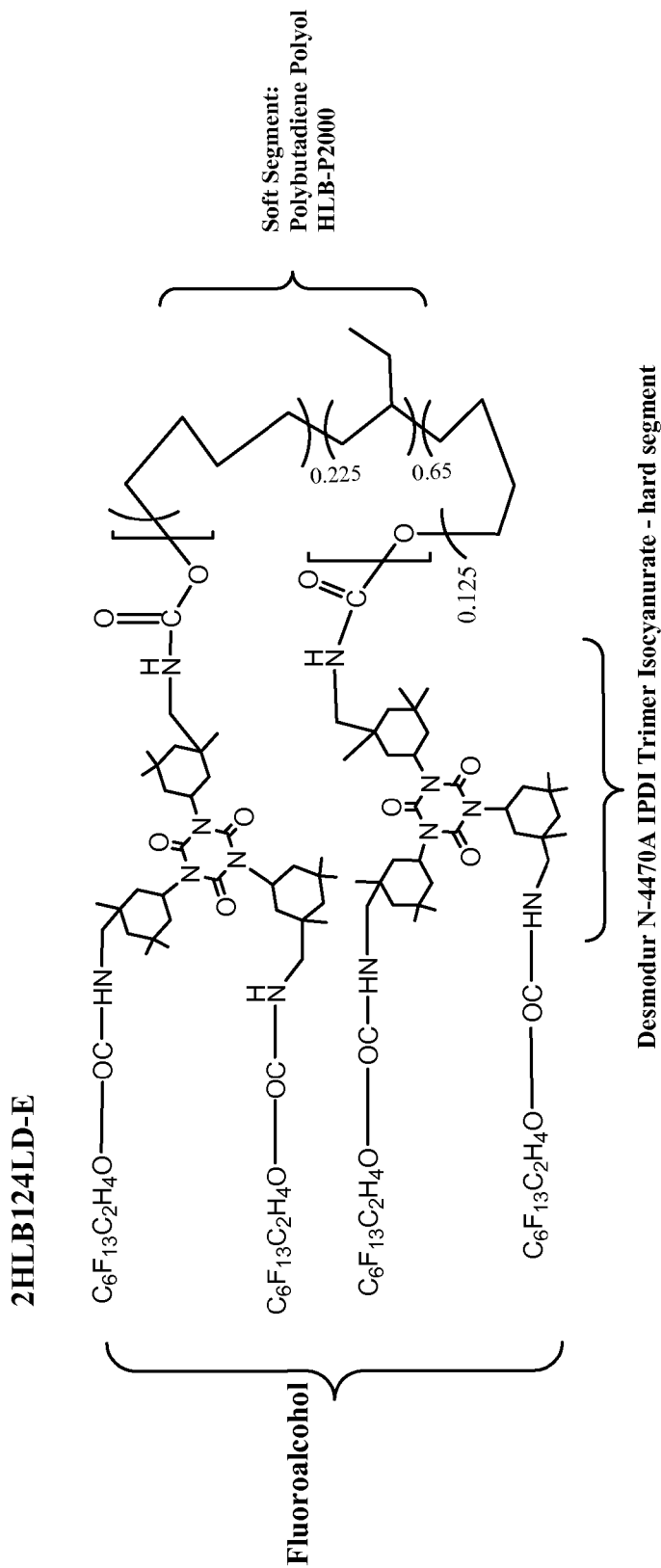
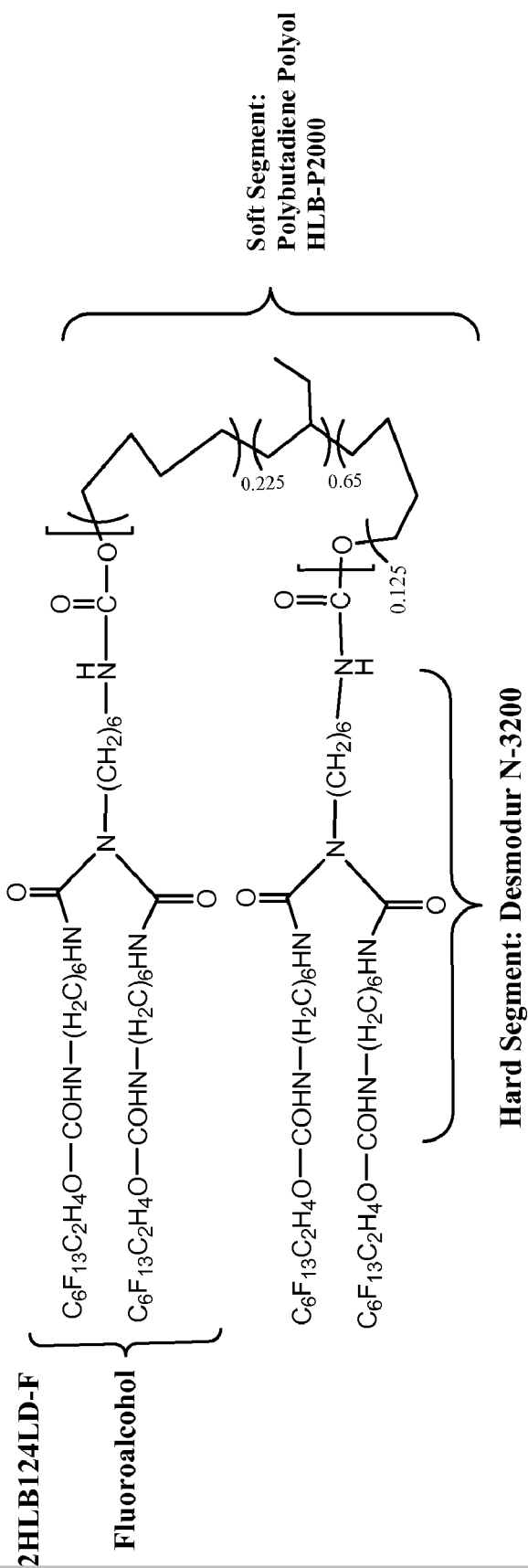


Fig. 1d

SMM4



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