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(71) Applicant: **YIELD ENGINEERING SYSTEMS, INC.**

[US/US]; 3178 Laurelview Ct., Fremont, California 94538 (US).

(72) Inventors: **AGERGAARD, Asger Holm**; Stjærvej 4,

Soballe, 8660 Skanderborg (DK). **ROGOJINA, Elena V.**; 1390 Saddle Rack Street, #428, San Jose, California 95126 (US). **JESSEN, Nicolaj Inunnguaq**; Korsagervej 19, 8382 Hinnerup (DK). **BULTZ, Elijah Baruch**; 415 E Taylor Street, Apt.4103, San Jose, California 95112 (US). **LIL-LETHORUP, Mie Blom**; Themsvej 21B, 8240 Risskov (DK). **KWAK, Byung Sung**; 9723 NW Henry Ct, Portland, Oregon 97229 (US). **KONGSFELT, Mikkel Skorkjær**; Klovermarksvej 1, 8300 Odder (DK). **LIM, Sung Hyun**;

41 Wellington Ct, Mountain View, California 94040 (US). **GHEZELBASH, Hossein-Ali**; 2380 108th Ave, Oakland, California 94603 (US). **FANG, Chen**; 440 Dixon Landing Rd, APT. C106, Milpitas, California 95035 (US).

(74) Agent: **RUMMLER, Jeffrey R.** et al.; Goodwin Procter LLP, 100 Northern Avenue, Boston, Massachusetts 02210 (US).

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(54) Title: MULTIFUNCTIONAL COMPOSITE SI AND C-BASED PARTICLES

(57) Abstract: The present disclosure provides methods for forming polymer brushes on Si and C-based - particles, thus, enabling easy large-scale production of polymer brush decorated particles. In particular, the improved methods allow for easy control of the graft-density due to the formation of a multifunctional layer on the particles. The disclosure also provides a Si and C-based - particle having a multifunctional base layer as well as a Si and C-based particle having a multifunctional base layer upon which polymer brushes are formed.

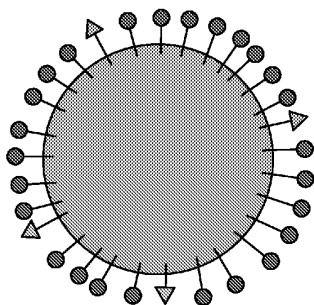


Figure 1A

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