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(71) Applicants (for all designated States except US):
SAINT-GOBAIN ABRASIVES, INC. [US/US]; One
New Bond Street, P.O. Box 15138, Worcester, MA 01615
(US). **SAINT-GOBAIN ABRASIFS** [FR/FR]; Rue De
L'ambassadeur, 78700 Conflans-sainte-honorine (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **GOLDSMITH, Paul S.** [US/US]; 20 Snake Brook Road, Wayland, MA 01778 (US). **GAETA, Anthony C.** [US/US]; 3789 Ridge Road, Lockport, NY 14094 (US). **MANNING, James J.** [US/US]; 19 Holmes Street, Braintree, MA 02184 (US). **KHATAMI, Kamran** [US/US]; 3789 Ridge Road, Lockport, NY 14094 (US).

(74) Agents: **PIERCE, N., Scott et al.**; Hamilton, Brook, Smith & Reynolds, P.C., 530 Virginia Road, P.O. Box 9133, Concord, MA 01742-9133 (US).

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(54) Title: RIGID OR FLEXIBLE, MACRO-POROUS ABRASIVE ARTICLE

(57) Abstract: A macro-porous abrasive article includes a spun lace substrate having a macro-porous structure and a coating. The coating is made of a resin binder and abrasive aggregates. The abrasive aggregates are formed from a composition of abrasive grit particles and a nanoparticle binder. The coating is at least partially embedded in the substrate. A method for making the macro-porous abrasive article includes combining abrasive aggregates of abrasive grit particles and a nanoparticle binder with a resin binder to form a slurry. The slurry is applied to a macro-porous support structure so that the slurry at least partially penetrates the substrate. The resin is then cured to bond the aggregate grains to the substrate.



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