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(71) Applicant: PPG INDUSTRIES OHIO, INC. [US/US];
3800 West 143rd Street, Cleveland, OH 44111 (US).

(72) Inventors: NOVICH, Bruce, E.; 1035 Highmont Road,
Pittsburgh, PA 15232 (US). LAMMON-HILINSKI,
Kami; 617-2 Center Avenue, Aspinwall, PA 15215 (US).
ROBERTSON, Walter, J.; 28 Shannopin Drive, Pitts-
burgh, PA 15202 (US). WU, Xiang; 1667 East Jamison

Place, Littleton, CO 80122 (US). VELPARI, Vedagiri;
230 Old Haymaker Road, Monroeville, PA 15146 (US).
LAWTON, Ernest, L.; 3432 Kilcash Drive, Clemmons,
NC 27012 (US). RICE, William, B.; 2855 Gray Moss
Drive, Clemmons, NC 27012 (US).

(74) Agents: SIMINERIO, Andrew, C.; PPG Industries, Inc.,
One PPG Place, Pittsburgh, PA 15272 et al. (US).

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(54) Title: IMPREGNATED GLASS FIBER STRANDS AND PRODUCTS INCLUDING THE SAME

(57) Abstract: The present invention provides an at least partially coated fiber strand comprising a plurality of glass fibers having a resin compatible coating composition on at least a portion of a surface of at least one of said glass fibers, the resin compatible coating composition comprising: (a) a plurality of lamellar, inorganic particles having a Mohs' hardness value which does not exceed the Mohs' hardness value of said glass fibers; and (b) at least one polymeric material. The present invention further provides the use of a resin compatible coating composition comprising: (a) a plurality of discrete particles formed from materials selected from non-heat expandable organic materials, inorganic polymeric materials, non-heat expandable composite materials and mixtures thereof, the particles having an average particle size sufficient to allow strand wet out; (b) at least one lubricious material different from said plurality of discrete particles; and (c) at least one film-forming material. The resin compatible coating composition can also comprise: (a) a plurality of hollow, non-heat expandable organic particles; and (b) at least one lubricious material different from the at least one hollow organic particle.

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