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(71) Applicant (for all designated States except US):
SAINT-GOBAIN ABRASIVES, INC [US/US]; 1
New Bond Street, Box Number 15138, Worcester, MA
01615-0138 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SWEI, Gwo, S.**
[US/US]; 225 Timberwind Lane, Vandalia, OH 45377

(US). **NEVORET, Damien, C.** [US/US]; 25 Jonathan
Circle, Worcester, MA 01604 (US). **YANG, Patrick**
[US/US]; 8 Birch Hill Road, Ballston Lake, NY 12019
(US).

(74) Agent: **BUJOLD, Michael, J.**; Davis & Bujold, P.L.L.C.,
Fourth Floor, 500 North Commercial Street, Manchester,
NH 03101-1151 (US).

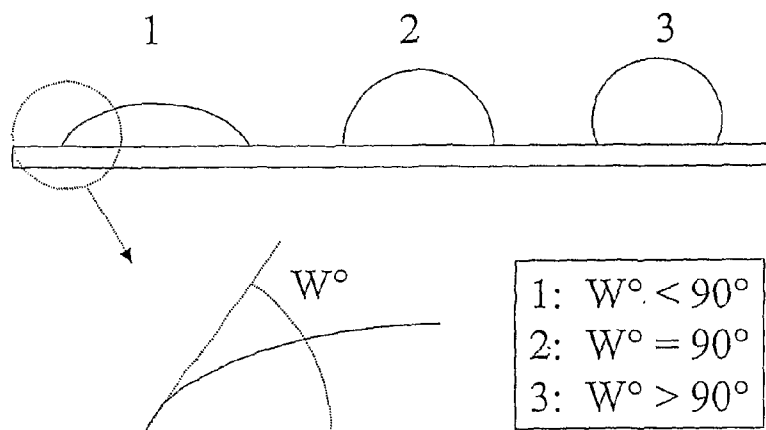
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(54) Title: ANTILOADING COMPOSITIONS AND METHODS OF SELECTING SAME

Water Contact Angle



- | |
|-------------------------|
| 1: $W^\circ < 90^\circ$ |
| 2: $W^\circ = 90^\circ$ |
| 3: $W^\circ > 90^\circ$ |

(57) Abstract: An antiloading composition includes a first organic compound. The compound has a water contact angle criterion that is less than a water contact angle for zinc stearate. The first compound also satisfies at least one condition selected from the group consisting of a melting point T_{melt} greater than about 40 °C, a coefficient of friction F less than about 0.3, and an antiloading criterion P greater than about 0.3. Another embodiment includes a second organic compound, having a different water contact angle from that of the first organic compound. The composition has a particular water contact angle W_p° that is determined, at least in part, by the independent W_g° of each compound and the proportion of each compound in the composition. Also, an abrasive product includes the antiloading composition. A method of grinding a substrate is disclosed that includes employing effective amount of an antiloading composition. Further disclosed is a method of selecting an antiloading compound.

WO 2005/039827 A1



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