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**Attention: Editor**  
October 7, 2009  
**PRESS RELEASE**

## Nano-Particle Corrosion Inhibiting Film Patent Granted to Cortec®

Cortec® Corporation (Saint Paul, MN) announces it has been granted U.S. Patent 7,588,820 “Nano-particle corrosion inhibiting films” on September 15, 2009 by the United States Patent and Trademark Office. This patent protects Cortec® multilayer corrosion inhibiting films containing VpCI® and nano-clay particles created through a single-step fabrication process. The inclusion of nano-clay gives the films improved physical and barrier properties compared with other film products. With the granting of this patent Cortec® holds 43 active patents. Congratulations to Cortec® inventors Art Ahlbrecht, Rita Kharshan, and Boris Miksic.



US00758820B2

(12) **United States Patent**  
Berg et al.

(10) **Patent No.:** US 7,588,820 B2  
(45) **Date of Patent:** Sep. 15, 2009

(54) **NANO-PARTICLE CORROSION INHIBITING FILMS**

(75) **Inventors:** Robert Berg, Coon Rapids, MN (US); Arthur H. Ahlbrecht, Stillwater, MN (US); Margarita Kharshan, Little Canada, MN (US); Boris A. Miksic, North Oaks, MN (US)

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(\*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 680 days.

(21) **App. No.:** 11/059,927

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(51) **Int. Cl.**  
B32B 27/08 (2006.01)  
B32B 27/02 (2006.01)

(52) **U.S. Cl.** 428/23, 428/325; 428/516

(58) **Field of Classification Search** None  
See application file for complete search history.

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(57) **ABSTRACT**  
A packaging film for use in inhibiting corrosion in packaged goods includes a polymeric substrate resin, between about 1 and 2% by weight of one or more corrosion inhibiting materials, and between about 2 and 10% by weight of nano-clay particles. The packaging film may be formed as a multiple layer co-extruded film, wherein a first polymeric layer is disposed between a second polymeric layer including nano-clay particles, and a third polymeric layer including one or more corrosion inhibitor materials.

**7 Claims, No Drawings**

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Cortec® Corporation is a world leader in innovative, environmentally responsible VpCI® and MCI® corrosion control technologies for Packaging, Metalworking, Construction, Electronics, Water Treatment, Oil & Gas, and other industries. Our relentless dedication to sustainability, quality, service, and support is unmatched in the industry. Headquartered in St. Paul, Minnesota, Cortec® manufactures over 400 products distributed worldwide. ISO 9001 & ISO 14001:2004 Certified.

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