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(71) Applicant (for all designated States except US): **CP-FILMS INC.** [US/US]; 4210 The Great Road, Fieldale, VA 24089 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **VAN NUTT, Charles, N.** [US/US]; 1501 Sam Lions Trail, Martinsville, VA 24112 (US). **ENNISS, James, P.** [US/US]; 1216 Knollwood Place, Martinsville, VA 24112 (US). **LI, Jaime, A.** [PE/US]; 800 Clarke Road, Martinsville, VA 24112 (US). **PORT, Anthony, B.** [GB/US]; 77 Ferndale Court, Collinsville, VA 24078 (US). **PICKETT, Scott, E.** [US/US]; 1243 Lanier Road, Martinsville, VA 24112 (US). **STEGALL, Jeremy, B.** [US/US]; 895 Oaktree Boulevard, Christiansburg, VA 24073 (US). **HUBBARD, Coby, L.** [US/US]; 4162 Hardie Stone Road, Patrick Springs, VA 24133 (US). **PHILLIPS, Rita, M.** [US/US]; 11 Alcot Drive, Bassett, VA 24055 (US). **BARTH, Steven, A.** [US/US]; 225 Ruth Hairston, Martinsville, VA 24112 (US).

(74) Agents: **DAMMAN, Kirk A.** et al.; Lewis, Rice & Fingersh, L.C., 600 Washington Avenue, Suite 2500, Box IP Department, St. Louis, MO 63101 (US).

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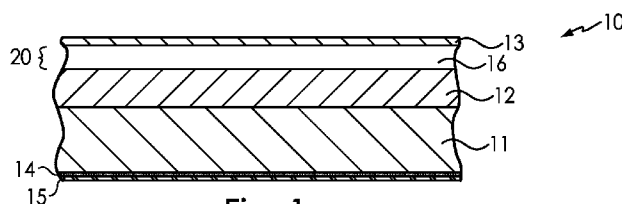


Fig. 1

(57) Abstract: A low emissivity and EMI shielding transparent composite film typically for use in association with window glazing and comprising a transparent film substrate having on one side thereof an underlayer of abrasion resistant hardcoat material with at least one infrared reflective layer covering the underlayer, typically a metallic layer which may be encased in metal oxide layers, which is then covered with a thin external protective top coat of a cured fluorinated resin.



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