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(US). **SWANSON, Ronald, P.**; 3M Center, Post Office Box 33427, Saint Paul, Minnesota 55133-3427 (US).

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(74) Agents: **LOWN, Jean, A.** et al.; 3M Center, Office Of Intellectual Property Counsel, Post Office Box 33427, Saint Paul, Minnesota 55133-3427 (US).

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(71) Applicant (for all designated States except US): **3M INNOVATIVE PROPERTIES COMPANY** [US/US]; 3M Center, Post Office Box 33427, Saint Paul, Minnesota 55133-3427 (US).

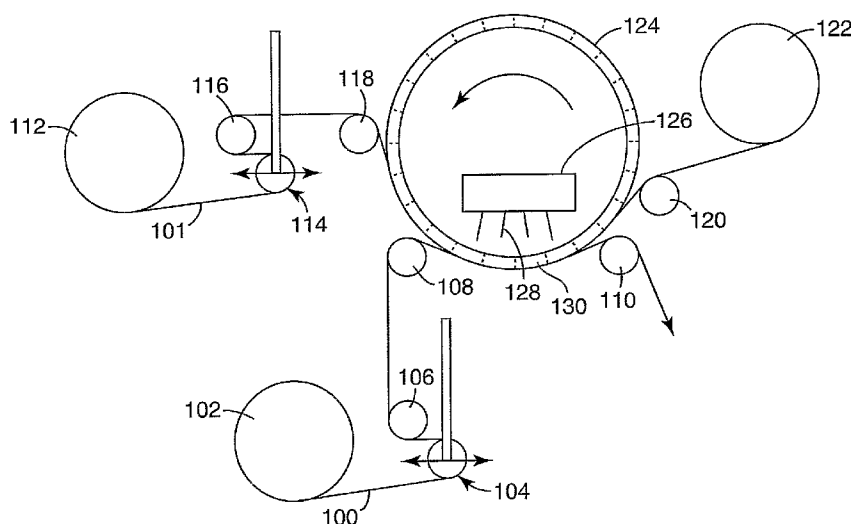
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(72) Inventors: **MCCLURE, Donald, J.**; 3M Center, Post Office Box 33427, Saint Paul, Minnesota 55133-3427 (US). **TOKIE, Jeffrey, H.**; 3M Center, Post Office Box 33427, Saint Paul, Minnesota 55133-3427 (US). **CARLSON, Daniel, H.**; 3M Center, Post Office Box 33427, Saint Paul, Minnesota 55133-3427 (US). **DOBBS, James, N.**; 3M Center, Post Office Box 33427, Saint Paul, Minnesota 55133-3427 (US). **STRAND, John, T.**; 3M Center, Post Office Box 33427, Saint Paul, Minnesota 55133-3427 (US).

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(54) Title: APPARATUS AND METHODS FOR CONTINUOUSLY DEPOSITING A PATTERN OF MATERIAL ONTO A SUBSTRATE



(57) Abstract: A pattern of material is continuously deposited onto a substrate. The substrate and a mask are continuously brought together over a portion of a drum where a deposition source emits material. The mask includes apertures that form a pattern, and the material from the deposition source passes through the pattern of the mask and collects onto the substrate to form the pattern of material. The elongation and the transverse position of the substrate and the mask may be controlled. Pattern elements of the substrate and of the mask may be sensed in order to adjust the elongation and/or the transverse position of the substrate and/or mask to maintain a precise registration. Furthermore, the apertures may have a least dimension on the order of 100 microns or less to thereby create features on the substrate having least dimensions on the order of 100 microns or less.

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