

Title (en)
PROCESS AND APPARATUS FOR COATING A WEB

Publication
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Application
EP 78300013 A 19780602

Priority
GB 2630777 A 19770623

Abstract (en)
[origin: ES471083A1] Process and apparatus for applying a flowable coating medium to a travelling web by a reverse applicator roll technique in which the peripheral velocity of the applicator roll (U) is maintained at less than 0.4 of the forward speed of the web, and the dynamic viscosity of the coating medium (η) is selected in accordance with the relationship $h=k \eta^{0.5} U^{0.5}$, wherein k is from 0.01 to 100, such that a layer of coating medium of equilibrium thickness (h) not exceeding 5.0 mm is entrained on the surface of the applicator roll for transfer to the web. The technique avoids the use of a doctor blade to meter the amount of coating medium on the applicator roll, and is suitable for the high speed application of a heat sealable coating layer onto a polymeric packaging film. Coating quality can be improved by stabilizing the web downstream of the applicator roll.

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IPC 8 full level
B05C 1/08 (2006.01); **B05D 1/28** (2006.01); **B05D 7/00** (2006.01)

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Cited by
US5840416A; FR2442667A1; EP0078560A1; WO9313264A1

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EP 0000241 A1 19790110; **EP 0000241 B1 19811014**; AR 220912 A1 19801215; AU 3694878 A 19791213; BR 7803890 A 19790109; CA 1116480 A 19820119; DE 2861151 D1 19811224; DK 269878 A 19781224; ES 471083 A1 19791216; FI 782003 A 19781224; JP S5441945 A 19790403; JP S629381 B2 19870227; PT 68198 A 19780701; US 4267215 A 19810512; ZA 783213 B 19790627

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