

Title (en)

System for producing a liquid spray curtain for application to a moving web.

Title (de)

System zum Erzeugen eines vorhangförmigen Flüssigkeitssprühstrahls zum Auftragen auf laufende Bahnen.

Title (fr)

Système de production d'un rideau de liquide pulvérisé pour l'application sur une bande en mouvement.

Publication

EP 0040927 A1 19811202 (EN)

Application

EP 81302126 A 19810513

Priority

US 15102380 A 19800519

Abstract (en)

A method and a system are provided for producing a continuous liquid spray curtain which, when sprayed onto a moving surface, covers essentially the entirety of that surface without substantial streaking thereof. The subject spray curtain is produced by discharging a continuous air curtain at a relatively high velocity of at least 600 feet per second (183 metres/sec.). A plurality of liquid streams are at the same time discharged from a liquid discharge means (37) at a relatively low velocity of not more than about 20 feet per second (6 metres/sec.). The air curtain contacts the liquid streams at a minimum contact angle of between about -10 DEG and about +30 DEG, measured from the center line of the liquid discharge means. The contacting air curtain atomizes the liquid streams and forms the subject high velocity, uniform, liquid spray curtain.

IPC 1-7

B05B 7/08; **B05B 7/02**; **D21G 7/00**

IPC 8 full level

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CPC (source: EP)

B05B 7/0807 (2013.01); **B05B 7/0884** (2013.01); **D21G 7/00** (2013.01)

Citation (search report)

- US 3750955 A 19730807 - NAKAI S, et al
- US 1888791 A 19321122 - COLE HARRY C
- US 4072772 A 19780207 - FRANZ HELMUT

Cited by

EP0498600A1; US5996576A; WO9711783A1

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