

Title (en)

SYSTEM FOR PRODUCING A LIQUID SPRAY CURTAIN FOR APPLICATION TO A MOVING WEB

Publication

EP 0040927 B1 19841114 (EN)

Application

EP 81302126 A 19810513

Priority

US 15102380 A 19800519

Abstract (en)

[origin: EP0040927A1] 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.

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