

Title (en)  
ELECTROSTATIC ASSISTED WEB COOLING AND REMOISTENING DEVICE

Title (de)  
VORRICHTUNG ZUM ELEKTROSTATISCHEN UNTERSTÜTZTEM KÜHLEN UND RÜCKBEFEUCHTUNG VON BAHNEN

Title (fr)  
DISPOSITIF DE REFROIDISSEMENT ET DE DETREMPAGE DE VOILE A ASSISTANCE ELECTROSTATIQUE

Publication  
**EP 1224083 A4 20041215 (EN)**

Application  
**EP 00970768 A 20001011**

Priority  
• US 0028062 W 20001011  
• US 15984099 P 19991015

Abstract (en)  
[origin: WO0128777A1] Apparatus and a method for enhancing the effectiveness of a water spray (30) to cool and/or remoisten a web (12) of material. The apparatus includes a web dryer, preferably a flotation dryer (100), an electrostatic charge generating device (31) or devices, a water spray (30), an integrated power supply (20) to supply high voltage power to the charge device, and a drainage system (35) for handling excess liquid generated during the cooling and/or remoistening of the web. The cooling apparatus is capable of a modular arrangement to optimize spacing and facilitate the addition of cooling capacity where needed, such as with faster web speeds or heavier web weights. One or more temperature sensors can be used to optimize the amount of and rate of fluid fed to the spray nozzles. The spray nozzles and charge bars can be retractable with respect to the web to facilitate web-up procedures.

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Citation (search report)  
• [YA] EP 0899100 A1 19990303 - HURLETRON INC [US]  
• [Y] DE 3241117 A1 19840510 - GRAFISCHE TECH AUTOMATION [DE]  
• [PA] DE 19901802 A1 20000727 - BALDWIN GRAFOTEC GMBH [DE]  
• See also references of WO 0128777A1

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**WO 0128777 A1 20010426**; AU 760388 B2 20030515; AU 8009600 A 20010430; CA 2384695 A1 20010426; CZ 20021322 A3 20030416; EP 1224083 A1 20020724; EP 1224083 A4 20041215; JP 2003530535 A 20031014; MX PA02003366 A 20040910

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