

Title (en)  
Refrigeration system with pulsed ejector and vertical evaporator

Title (de)  
Kälteanlage mit Pulsstrahldüse und vertikalem Verdampfer

Title (fr)  
Système frigorifique à éjecteur pulsé et à évaporateur vertical

Publication  
**EP 0704663 A1 19960403 (EN)**

Application  
**EP 95306791 A 19950926**

Priority  
US 31577594 A 19940930

Abstract (en)  
A refrigeration system involving a nozzling device (10) which fully opens and closes to create high velocity bursts of unrestricted refrigerant flow through the system, wherein a pulsed ejector (11) is coupled with the nozzling device (10) and refrigerant from the evaporator (36) is recirculated back to the pulse ejector (11), wherein the evaporator (36) is vertical and its tubes (40) are substantially entirely wetted interiorly during operation, wherein the condenser (44) is vertical and its tube surface area are substantially entirely functioning as condensing heat transfer surfaces, wherein an ejector (50) is associated with the condenser (44) and refrigerant from the condenser (44) is recirculated back to the condenser ejector (50), and also wherein internal ejector recirculation effects occur within the evaporator (36) and condenser (44) as a result of pulse flow events. <IMAGE>

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IPC 8 full level  
**F25B 41/00** (2006.01); **F25B 41/06** (2006.01); **F25B 47/02** (2006.01)

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Citation (search report)

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