

Title (en)  
WET OR COMBINED WET-DRY COOLING TOWER

Publication  
**EP 0162993 B1 19870902 (DE)**

Application  
**EP 84710018 A 19840529**

Priority  
EP 84710018 A 19840529

Abstract (en)  
[origin: US4622183A] In a wet type or wet/dry type cooling tower, water discharged from water distributing means after its passage cooling air heat exchanger is intercepted by an array of parallel water guiding plates. Each guiding plate has a sloping upper part which covers the gap between opposite plates and an upright lower part defining a substantially horizontal transition region with the upper part. A plurality of inclined channel like embossments is formed in the upright lower part. The embossments extend one above the other between a lateral edge of the upright lower part and the transition region. At least one water collecting channel extends in transverse direction along the lateral edges of the upright lower part to collect water discharged from the inclined embossments and transfer the collected water to a recirculation device. This arrangement provides a passage for the upward stream of cooling air which is not unduly restricted by the water collecting channels and the pressure loss of cooling air stream is minimized.

IPC 1-7  
**F28F 25/02**

IPC 8 full level  
**F28F 25/02** (2006.01)

CPC (source: EP US)  
**F28F 25/02** (2013.01 - EP US); **Y10S 165/90** (2013.01 - EP US); **Y10S 261/11** (2013.01 - EP US); **Y10S 261/85** (2013.01 - EP US)

Citation (examination)  
DE 2619407 A1 19771117 - BALCKE DUERR AG

Cited by  
EP2889479A1; EP0794829A4

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**EP 0162993 A1 19851204; EP 0162993 B1 19870902**; AU 4265885 A 19851205; AU 570888 B2 19880324; DE 3465775 D1 19871008; IN 163995 B 19881224; US 4622183 A 19861111; ZA 853767 B 19860129

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**EP 84710018 A 19840529**; AU 4265885 A 19850520; DE 3465775 T 19840529; IN 373CA1985 A 19850517; US 73873185 A 19850529; ZA 853767 A 19850517