

Title (en)

Cooling system for a paper or board machine

Title (de)

Kühlsystem für eine Papier- oder Kartonmaschine

Title (fr)

Système de refroidissement pour une machine à papier ou carton

Publication

**EP 1048781 A3 20010328 (DE)**

Application

**EP 00102934 A 20000214**

Priority

DE 19919877 A 19990430

Abstract (en)

[origin: EP1048781A2] The cooling system for a papermaking or cardboard prodn. machine has at least one closed primary cooling circuit (3.1-3.4;4.1-4.4) to take off surplus heat. Each primary circuit has at least one primary fluid/water heat exchanger (2.1-2.4) to transfer heat to at least one closed secondary cooling circuit (5,6). The secondary cooling circuit has at least one secondary water/water heat exchanger (8) to transfer heat from the secondary to a tertiary coolant water strand with a coolant water feed and outlet (10) at the papermaking/cardboard prodn. machine. The primary cooling circuit (3.1-3.4;4.1-4.4) uses oil as a heat carrier. The tertiary cooling circuit passes through a cooling tower, where excess heat is released into the ambient environment. The tertiary cooling circuit has a collection vessel where coolant water is fed to the cooling tower and the preparation process if required. The tertiary cooling circuit has an intermediate vessel between the cooling tower and the secondary heat exchanger (8).

IPC 1-7

**D21F 5/20**; **D21G 1/02**

IPC 8 full level

**D21F 5/20** (2006.01); **D21G 1/02** (2006.01)

CPC (source: EP US)

**D21F 5/20** (2013.01 - EP US); **D21G 1/0253** (2013.01 - EP US)

Citation (search report)

- [A] WO 9738161 A1 19971016 - SCHWAEBISCHE HUETTENWERKE GMBH [DE], et al
- [DA] WO 9744523 A1 19971127 - VALMET CORP [FI]

Cited by

DE102008040216A1; EP2143841A3; EP2143841A2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**EP 1048781 A2 20001102**; **EP 1048781 A3 20010328**; **EP 1048781 B1 20051109**; AT E309409 T1 20051115; DE 19919877 A1 20001102; DE 50011538 D1 20051215; US 6293113 B1 20010925

DOCDB simple family (application)

**EP 00102934 A 20000214**; AT 00102934 T 20000214; DE 19919877 A 19990430; DE 50011538 T 20000214; US 55740400 A 20000424