

Title (en)

Cooling heated metal surfaces.

Title (de)

Kühlen von aufgewärmten Metalloberflächen.

Title (fr)

Refroidissement de surfaces métalliques chauffées.

Publication

EP 0143133 A1 19850605 (EN)

Application

EP 83402285 A 19831125

Priority

EP 83402285 A 19831125

Abstract (en)

A method for rapidly cooling heated surfaces by spraying a low volume liquid stream without foam onto a heated surface which not only conserves the volume of fluid used, but also more quickly cools the heated surface compared to conventionally used water systems. The method of this invention uses a composition formed from a concentrate comprising one or more nonionic surfactants having a combined cloud point of 68 DEG F-112 DEG F and sufficient water to form a concentrate solution of not greater than 30% by weight of the surfactant. The ultimate heated surface cooling composition is formed from the concentrate to be passed through a conventional pump with not greater than 0.2% by volume of the surfactant in order not to cause undesirable foaming or cavitation of the pump due to the low concentration of the surfactant. The heated surface cooling solution in this form is sprayed onto the hot surfaces of sheet metal or structural elements to cool these metal surfaces to a desirable temperature that may be as low as approximately 60 DEG C.

IPC 1-7

C21D 1/60; **B21B 45/02**

IPC 8 full level

A62D 1/00 (2006.01); **C21D 1/60** (2006.01)

CPC (source: EP)

A62D 1/0042 (2013.01); **C21D 1/60** (2013.01)

Citation (search report)

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Designated contracting state (EPC)

AT BE CH DE FR LI LU NL SE

DOCDB simple family (publication)

EP 0143133 A1 19850605

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EP 83402285 A 19831125