

Title (en)

Self-propelled construction machine for working on road surfaces or ground surfaces and method for cooling the milling tools of a milling drum of a self-propelled construction machine

Title (de)

Selbstfahrende Baumaschine zum Bearbeiten von Fahrbahnen oder Bodenoberflächen und Verfahren zum Kühlung der Fräswerkzeuge einer Fräswalze einer selbstfahrenden Baumaschine

Title (fr)

Engin autopropulsé de traitement de chaussées ou de surfaces de sol et procédé de refroidissement des outils de fraisage d'une fraiseuse d'un engin autopropulsé

Publication

**EP 2837740 B1 20151202 (DE)**

Application

**EP 14180561 A 20140811**

Priority

DE 102013013304 A 20130812

Abstract (en)

[origin: US2015043971A1] A self-propelled construction machine for working roadways or surfaces includes a machine frame supported by ground engaging units, and a milling drum which can rotate about an axis of rotation extending transverse to the advance direction of the construction machine. The construction machine includes a cooling device for spraying the milling tools of the milling drum with a coolant from a coolant reservoir. The cooling device is designed such that at least one coolant jet extending parallel to the axis of rotation of the milling drum is produced. A single coolant jet which extends transverse to the working direction of the milling drum is sufficient for cooling the milling tools. When the milling drum is rotating, the milling tools of the milling drum pass through the coolant jet successively. Owing to the relatively close arrangement of the milling tools in the circumferential direction of the milling drum, the time intervals in which a milling tool is not passing through a coolant jet are relatively short, and as a result the coolant consumption can be reduced.

IPC 8 full level

**E01C 23/088** (2006.01)

CPC (source: CN EP US)

**E01C 23/088** (2013.01 - CN EP US); **F28C 3/00** (2013.01 - US)

Cited by

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