

Title (en)

METHOD AND DEVICE FOR DE-ICING ROAD CARRIAGEWAYS INVOLVING THE RE-USE OF RECOVERED THAWING SOLUTION

Title (de)

VERFAHREN UND EINRICHTUNG ZUM ENTEISEN VON FAHRBAHNEN UNTER WIEDERVERWENDUNG RÜCKGEWONNENER AUFTAU-LÖSUNGEN

Title (fr)

PROCEDE ET DISPOSITIF DE DEGLA AGE DE VOIES DE CIRCULATION IMPLIQUANT LA REUTILISATION D'UNE SOLUTION DE DEGIVRAGE RECUPEREE

Publication

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Application

EP 95918593 A 19950424

Priority

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Abstract (en)

[origin: US5853262A] PCT No. PCT/EP95/01534 Sec. 371 Date Oct. 23, 1996 Sec. 102(e) Date Oct. 23, 1996 PCT Filed Apr. 24, 1995 PCT Pub. No. WO95/29296 PCT Pub. Date Nov. 2, 1995A process and an apparatus installation for de-icing roadways (1) automatically, to which is applied a melting-agent solution in water to lower the freezing point. The run-off from the roadways may be mixed with precipitation water and melted snow and ice as melt water. The latter is collected and, after having tested its melting-agent content (in 18), at least a portion of the melting-agent contained in the run-off leaving the roadway surface is re-used by re-applying it as an aqueous melting solution (via 11)-if necessary after adding fresh melting-agent-and, in particular, helps save melting-agent and is also less damaging to the environment by increasing (in 26) the solution's concentration in the melt water to be re-used before re-applying it as a melting solution in one separation step in the course of which water (in 31) free of or low in melting-agent on the one hand and a more highly concentrated solution (in 32) on the other hand are created as partial flows, as a consequence of which a larger percentage of the melt water can be re-used. This cycle can also integrate pollutant-elimination steps.

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