

Title (en)  
Spreading device for winter service vehicles

Title (de)  
Streugerät für Winterdienstfahrzeuge

Title (fr)  
Appareil d'épandage pour véhicules de services d'hiver

Publication  
**EP 2354309 A3 20140101 (DE)**

Application  
**EP 10197273 A 20101229**

Priority  
• DE 102009060681 A 20091229  
• DE 102010029142 A 20100519

Abstract (en)  
[origin: EP2354309A2] The spreader device (1) has a girt container (3) that is utilized as a brine tank. A liquid thawing material is stored in the girt container. A spreading unit (6) or a spraying device (17) is functionally coupled with the girt container or the brine container. Independent claims are also included for the following: (1) a logistic method for transporting of liquid thawing material for winter services; and (2) a liquid tank, which has transporting elements.

IPC 8 full level  
**E01C 19/12** (2006.01); **E01C 19/21** (2006.01); **E01H 10/00** (2006.01)

CPC (source: EP)  
**E01C 19/12** (2013.01); **E01C 19/21** (2013.01); **E01H 10/007** (2013.01)

Citation (search report)  
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• [X] FR 2457927 A2 19801226 - AUTOROUTES CIE FINANC INDLE  
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• [A] NL 1002231 C2 19970807 - P VAN DER KOOIJ TRANSPORT N V [NL]  
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Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
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**EP 10197273 A 20101229**; DE 102010029142 A 20100519; DK 10197273 T 20101229; DK 14177173 T 20101229; EP 14177173 A 20101229; ES 10197273 T 20101229; ES 14177173 T 20101229; HR P20161360 T 20161018; HR P20170977 T 20170628; HU E10197273 A 20101229; HU E14177173 A 20101229; LT 10197273 T 20101229; LT 14177173 T 20101229; PL 10197273 T 20101229; PL 14177173 T 20101229; PT 10197273 T 20101229