

Title (en)  
SPREADER VEHICLE FOR SOLID AND LIQUID THAWING MATERIALS

Publication  
**EP 0048465 B1 19840718 (DE)**

Application  
**EP 81107405 A 19810918**

Priority  
DE 3035360 A 19800919

Abstract (en)  
[origin: US4442979A] A spreader of granulated and liquid material, for a vehicle comprises, a granulated material vessel having three feed troughs extending substantially along a longitudinal axis of the vehicle. A conveyor with hydraulic motor is positioned in each feed trough and feeds granulated material to three distributor units. A liquid material vessel is also provided which includes liquid supply lines to each of the distributor units. Each liquid supply line has a hydraulic motor-powered pump. Two of the feed troughs which are positioned on either sides of the longitudinal axis of the vessel include granulated material feed lines connected between the respective feed trough and its associated distributor unit so that a distributor plate of each of the associated distributor units is positionable beyond the side contours of the vehicle, and on either side of the vehicle, to increase the potential width of coverage with the spread material.

IPC 1-7  
**E01H 10/00**; B05B 3/10; B60P 1/40; E01C 19/20; E01H 3/02; F16H 39/44

IPC 8 full level  
**B05B 3/10** (2006.01); **B60P 1/40** (2006.01); **E01C 19/20** (2006.01); **E01H 3/02** (2006.01); **E01H 10/00** (2006.01)

CPC (source: EP US)  
**E01C 19/203** (2013.01 - EP US); **E01H 3/02** (2013.01 - EP US); **E01H 10/007** (2013.01 - EP US)

Cited by  
DE4039795C1; DE3819715A1; DE3937675A1; EP0985769A1; NL1010056C2; CN111851389A; DE102004059462B4; DE102004059462A1; DE4109366A1; EP1942230A1; DE3901996A1; EP0282812A3; US9296571B2; WO2014127349A1; EP3646693B1

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DOCDB simple family (publication)  
**EP 0048465 A2 19820331**; **EP 0048465 A3 19821013**; **EP 0048465 B1 19840718**; AT E8517 T1 19840815; CA 1169107 A 19840612; DE 3035360 A1 19820519; DE 3035360 C2 19821230; DK 151105 B 19871102; DK 151105 C 19880321; DK 403381 A 19820320; FI 70956 B 19860718; FI 70956 C 19861027; FI 812907 L 19820320; NO 813116 L 19820322; US 4442979 A 19840417

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**EP 81107405 A 19810918**; AT 81107405 T 19810918; CA 386290 A 19810921; DE 3035360 A 19800919; DK 403381 A 19810911; FI 812907 A 19810917; NO 813116 A 19810914; US 30416681 A 19810921