

Title (en)

Ground watering spray system for backhoe machines

Title (de)

Sprühsystem bei Baggern zur Bewässerung von Boden

Title (fr)

Système de pulvérisation pour pelle mécanique permettant l'arrosage de la terre

Publication

EP 1287899 A1 20030305 (EN)

Application

EP 01120645 A 20010830

Priority

EP 01120645 A 20010830

Abstract (en)

A watering spray system offering a method for softening soil in preparation for compacting the soil with a vibrating compactor (20) attached to the end of an articulated arm of a backhoe (10) or the like equipment. The system includes a water spray head (38) secured to the end of the articulated arm (23) of the backhoe (10) in full view of the backhoe operator (12) to apply water for moisturizing back fill soil for compacting, a shut-off valve for controlling the water applied, a flexible water supply line starting at the water supply tank (44), running under the backhoe cab (30), and along the articulated main boom and arm, ending at the spray head (38). A welded frame assembly positioned at the rear of backhoe (10), for suspending the flexible water supply hose above the backhoe motor (34) for viewing by the backhoe operator to determine tension on the hose, preventing over-stretching and possible damage to the hose during operation. The source of water may vary any means to maintain sufficient pressure at the spray head. The invention allows the backhoe operator (12) sitting in the cab (30) to control the application of water for dampening the soil in the preparation for compacting. Application of water is controlled by an electrical switch, located within the cab, used to energize the electric-water-flow-control-valve to the open or closed position. The backhoe spray system is also used for cleaning large surface areas which have been contaminated by toxic substances, such as oil, gasoline, and acids. <IMAGE>

IPC 1-7

B05B 11/02; **A61M 15/00**; **E02F 3/96**; **B05B 13/00**

IPC 8 full level

B05B 13/00 (2006.01); **E02F 3/96** (2006.01); **B05B 1/20** (2006.01)

CPC (source: EP)

B05B 13/005 (2013.01); **E02F 3/967** (2013.01); **B05B 1/20** (2013.01)

Citation (search report)

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- [X] PATENT ABSTRACTS OF JAPAN vol. 017, no. 603 (M - 1505) 5 November 1993 (1993-11-05)
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Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1287899 A1 20030305

DOCDB simple family (application)

EP 01120645 A 20010830