

Title (en)
SPRAYING APPARATUS AND AGRICULTURAL FIELD SPRAYER COMPRISING THE SAME

Title (de)
SPRITZENVORRICHTUNG UND LANDWIRTSCHAFTLICHE FELDSPRITZE MIT EINER SOLCHEN

Title (fr)
DISPOSITIF DE PULVÉRISATION ET PULVÉRISATEUR AGRICOLE ÉQUIPÉ D'UN TEL DISPOSITIF

Publication
EP 2303464 A1 20110406 (DE)

Application
EP 09769293 A 20090624

Priority
• EP 2009057906 W 20090624
• DE 102008002739 A 20080627

Abstract (en)
[origin: WO2009156444A1] A spraying apparatus (19) for an agricultural field sprayer (10) is proposed. The spraying apparatus (19) comprises a spraying boom (20), at least one spray line (32) disposed on the spraying boom (20), and a plurality of outlet openings (36) disposed along the spray line (32) for spraying fluid, said openings being connected to an inlet opening (66, 76) of a spray nozzle body (40, 70) by way of a connecting piece (38). In order to improve the flow condition of such a spraying apparatus (19), it is proposed to design the connecting piece (38) as a valve housing and to provide it with an inlet opening (44) and an outlet opening (46), which can be closed by a valve control means, for spraying fluid, wherein the inlet opening (44) and outlet opening (46) of the connecting piece (38) are disposed opposite of each other, and the spraying fluid flows through outlet opening (46) in the same direction of flow as the inlet opening (66, 76) of the spray nozzle body (40, 70).

IPC 8 full level
B05B 1/20 (2006.01); **A01M 7/00** (2006.01); **B05B 1/30** (2006.01); **B05B 15/06** (2006.01); **F16K 31/06** (2006.01)

CPC (source: EP US)
A01M 7/006 (2013.01 - EP US); **B05B 1/3026** (2013.01 - EP US); **F16K 31/0651** (2013.01 - EP US); **F16K 31/0662** (2013.01 - EP US); **B05B 1/16** (2013.01 - EP US); **B05B 15/658** (2018.01 - EP US)

Citation (search report)
See references of WO 2009156444A1

Citation (examination)
• FR 1011205 A 19520620
• DE 914086 C 19540624 - KAETE BANDITT GEB FRANZ
• JP S58152988 A 19830910 - SAGINOMIYA SEISAKUSHO INC

Designated contracting state (EPC)
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 SE SI SK TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
DE 102008002739 A1 20091231; BR PI0912153 A2 20151006; EP 2303464 A1 20110406; US 2012000991 A1 20120105; WO 2009156444 A1 20091230

DOCDB simple family (application)
DE 102008002739 A 20080627; BR PI0912153 A 20090624; EP 09769293 A 20090624; EP 2009057906 W 20090624; US 200913000082 A 20090624