

Title (en)
Scraper device and construction machine

Title (de)
Baumaschine mit Abstreifeinrichtung

Title (fr)
Dispositif de racleage, ainsi qu'engin de chantier

Publication
EP 2025812 B1 20170510 (DE)

Application
EP 08159106 A 20080626

Priority
DE 102007038677 A 20070815

Abstract (en)
[origin: EP2025812A2] The scraper device has scraper blade engaged with lateral retaining devices (20) at lateral walls (8) when in operating position. The scraper blade (10) is retained in position running essentially orthogonal to ground surface. The swiveling device (30) swivels scraper blade about swiveling axis (18) when scraper blade is disengaged from lateral retaining devices. The swiveling device is provided at upper end of upper part of scraper blade with operating device (34) that is articulated between permanently installed part of construction machine and scraper blade upper part (14).

IPC 8 full level
E01C 23/088 (2006.01); **E02F 3/76** (2006.01)

CPC (source: EP US)
E01C 23/088 (2013.01 - EP US); **E01C 23/127** (2013.01 - US); **E02F 3/7645** (2013.01 - EP US); **E02F 3/783** (2013.01 - EP US)

Citation (opposition)
Opponent : Caterpillar Inc.

- DE 102005058102 B3 20070301 - WIRTGEN GMBH [DE]
- DE 3528038 A1 19870212 - WIRTGEN REINHARD
- US 5505598 A 19960409 - MURRAY STUART W [US]
- US 5474397 A 19951212 - LYONS SCOTT F [US]
- WO 2004081289 A1 20040923 - APPLIED SWEEPERS LTD [GB], et al
- "SF-102 Cold Planer", BITELLI TECHNICAL PRESENTATION, October 2003 (2003-10-01), pages 1 - 364, XP055468777
- "SF-102/SF 102 C AP Cold Planer", BITELLI SERVICE MANUAL, November 2004 (2004-11-01), XP055467846
- "SF 102R / SF 102 CR Planer", BITELLI OPERATING INSTRUCTION BOOK, October 2004 (2004-10-01), pages 1 - 132, XP055467853
- "SF 102 / SF 102C Deep Cut Cold Planers", BITELLI MACHINE BROCHURE, 1999, XP055467857
- "Caterpillar PM-102 Cold Planer", CATERPILLAR OPERATION AND MAINTENANCE MANUAL, July 2007 (2007-07-01), pages 1 - 154, XP055468707
- "PM-102 Cold Planer", CATERPILLAR SYSTEMS OPERATION, November 2006 (2006-11-01), pages 1 - 118, XP055468712
- "PM-102 Cold Planer", CATERPILLAR TECHNICAL PRESENTATION, September 2006 (2006-09-01), pages i-vi, 1 - 204, XP055468717
- "PM-102 Cold Planer", CATERPILLAR PRODUCT INFORMATION - BID SPECIFICATIONS, October 2005 (2005-10-01), pages 1 - 8, XP055468722
- "Caterpillar Announces the PM-102 Cold Planer", CATERPILLAR® PRODUCT INFORMATION SALESGRAM, June 2005 (2005-06-01), XP055469197
- "PM-102 Cold Planer", CATERPILLAR BROCHURE, June 2005 (2005-06-01), pages 1 - 12, XP055469201
- BITELLI: "Puma SF-200", SPARE PARTS BOOK, DR-392029410A3
- BITELLI: "Puma SF-200", SPARE PARTS BOOK, DR-092079409A3
- BITELLI: "Puma SF 200", OPERATING INSTRUCTION MANUAL, DU-092069606A2
- "SF-200 A.P. Deep Cut", BITELLI TRAINING MANUAL, March 1994 (1994-03-01), XP055469211
- "Tigre SF 200 L Cold Planer", SERVICE MANUAL, DS-098019709GB, September 1997 (1997-09-01), XP055469515
- "PUMA SF 200 Deep Cut - Cold Planer for asphalt and concrete", BITELLI MACHINE BROCHURE, July 1989 (1989-07-01), XP055469522
- "PM200 Cold Planer", OPERATION AND MAINTENANCE MANUAL, March 2007 (2007-03-01), pages 1 - 200, XP055469529
- "PM-200 Cold Planer", PARTS MANUAL, February 2006 (2006-02-01), XP055469531
- "PM-200 Cold Planer", TECHNICAL PRESENTATION, November 2006 (2006-11-01), XP055469652
- "Caterpillar Announces the PM-200 Cold Planer", CATERPILLAR® PRODUCT INFORMATION SALESGRAM, June 2005 (2005-06-01), pages 1 - 9, XP055469215
- "PM-200 Cold Planer", CATERPILLAR BROCHURE, June 2005 (2005-06-01), pages 1 - 16, XP055470013
- "PM-200 Cold Planer", CATERPILLAR® PRODUCT INFORMATION - BID SPECIFICATIONS, October 2005 (2005-10-01), pages 1 - 8, XP055470023
- "PM-465 Cold Planer Machine Systems", DISASSEMBLY AND ASSEMBLY, KENR3103-01, October 2004 (2004-10-01), pages 1 - 104, XP055470035
- "PM-465 Cold Planer", OPERATION AND MAINTENANCE MANUAL, June 2003 (2003-06-01), pages 1 - 150, XP055470056
- "PM-465 Cold Planer Rotor System", SPECIFICATIONS SYSTEMS OPERATION TESTING & ADJUSTING, February 1998 (1998-02-01), XP055471597
- "PM-465 Cold Planer Auxiliary Hydraulic System", SYSTEMS AND OPERATION TESTING & ADJUSTING, February 1998 (1998-02-01), pages 1 - 36, XP055471602
- "PM-465 Cold Planer", CATERPILLAR TECHNICAL PRESENTATION MEETING GUIDE 9459, December 1998 (1998-12-01), XP055471606
- "PM-465 Cold Planer", CATERPILLAR PRODUCT BULLETIN, October 1997 (1997-10-01), XP055472458
- ANONYMOUS: "PM-465 Cold Planer", CATERPILLAR BROCHURE, 1999, pages 12pp, XP055476931
- ANONYMOUS: "PM-465 Cold Planer Update", CATERPILLAR® PRODUCT INFORMATION "BID SPECIFICATIONS", March 1999 (1999-03-01), pages 1 - 4, XP055476933
- ANONYMOUS: "Caterpillar Announces PM-465 Cold Planer Update", CATERPILLAR® PRODUCT INFORMATION "SALESGRAM", March 1999 (1999-03-01), XP055476936
- ANONYMOUS: "Variable Width Rotor available for Caterpillar® PM-465 Cold Planer", CATERPILLAR® PRODUCT INFORMATION "SALESGRAM", March 2000 (2000-03-01), XP055476939
- ANONYMOUS: "Caterpillar® Parts Manual PM-565 Cold Planer", September 2001, pages: 1 - 1029
- ANONYMOUS: "PM-565 Cold Planer", CATERPILLAR® OPERATION AND MAINTENANCE MANUAL, January 1995 (1995-01-01), pages 154pp, XP055476947

- ANONYMOUS: "PM-565 Cold Planer 3TK00040-UP", CATERPILLAR® TECHNICAL PRESENTATION, August 1993 (1993-08-01), XP055480915
- ANONYMOUS: "Caterpillar PM-565 Cold Planer", CATERPILLAR BROCHURE, 1992, XP055477384
- ANONYMOUS: "Caterpillar PM-565B Cold Planer", OPERATION AND MAINTENANCE MANUAL, April 2001 (2001-04-01), XP055480543
- ANONYMOUS: "PM-565B Cold Planer 8GS1-Up", CATERPILLAR TECHNICAL PRESENTATION, July 1998 (1998-07-01), XP055480554
- ANONYMOUS: "PM-565 & PM-565B Cold Planer Machine Systems", CATERPILLAR "DISASSEMBLY AND ASSEMBLY" MANUAL, October 2004 (2004-10-01), XP055480532
- ANONYMOUS: "Caterpillar Parts Manual PM-565B Cold Planer", February 2001, pages: 1 - 951
- "PM-565 & PM-565B Cold Planer Auxiliary Hydraulic Systems", CATERPILLAR SYSTEMS OPERATION, TESTING & ADJUSTING, May 1997 (1997-05-01), pages 52pp, XP055479967
- ANONYMOUS: "PM-565B Cold Planer", CATERPILLAR MACHINE BROCHURE, July 1998 (1998-07-01), pages 1 - 8, XP055478227
- ANONYMOUS: "PM-565B Cold Planer", CATERPILLAR MACHINE BROCHURE, August 1997 (1997-08-01), pages 1 - 8, XP055478231
- ANONYMOUS: "Caterpillar® Introduces Updates for the PM-565B Cold Planer", CATERPILLAR® PRODUCT INFORMATION SALESGRAM, June 2001 (2001-06-01), pages 1 - 6, XP055478238
- ANONYMOUS: "PM-565B Cold Planer", CATERPILLAR® PRODUCT INFORMATION PRODUCT BULLETIN, September 2007 (2007-09-01), pages 1 - 44, XP055478243
- ANONYMOUS: "Caterpillar® PM-565B Cold Planer", CATERPILLAR® PRODUCT INFORMATION BID SPECIFICATIONS, June 2001 (2001-06-01), pages 1 - 4, XP055478264
- ANONYMOUS: "Caterpillar PM-565B Cold Planer", CATERPILLAR® PRODUCT INFORMATION BID SPECIFICATIONS, October 1999 (1999-10-01), pages 1 - 2, XP055478268
- ANONYMOUS: "Macchina Operatrice Semovente Eccezionale -Scarificatrice- Tipo "095"", BITELLI DOCUMENT, 30 August 1999 (1999-08-30), XP055479963
- ANONYMOUS: "Macchina Operatrice Semovente Eccezionale -Scarificatrice- Tipo "095"", BITELLI DOCUMENT, 1 March 1999 (1999-03-01), XP055479964

Cited by

CN115977183A; EP2977514A1; CN105316995A; CN109047130A; US11318941B2; WO2012016573A1; US9879392B2; US10494778B2; US10947677B2

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 MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 2025812 A2 20090218; EP 2025812 A3 20101027; EP 2025812 B1 20170510; AU 2008203250 A1 20090305; AU 2008203250 B2 20110421; BR PI0803349 A2 20090407; BR PI0803349 B1 20180911; CN 101368362 A 20090218; CN 101368362 B 20140409; CN 201326149 Y 20091014; DE 102007038677 A1 20090226; DE 102007038677 B4 20090917; EP 3231940 A1 20171018; JP 2009046971 A 20090305; JP 4897749 B2 20120314; US 10208436 B2 20190219; US 2009044366 A1 20090219; US 2012170978 A1 20120705; US 2013154340 A1 20130620; US 2015091364 A1 20150402; US 2017130420 A1 20170511; US 2018073206 A1 20180315; US 8100480 B2 20120124; US 8376469 B2 20130219; US 8899690 B2 20141202; US 9551118 B2 20170124; US 9644340 B1 20170509

DOCDB simple family (application)

EP 08159106 A 20080626; AU 2008203250 A 20080717; BR PI0803349 A 20080815; CN 200810135372 A 20080725; CN 200820133088 U 20080725; DE 102007038677 A 20070815; EP 17169983 A 20080626; JP 2008183103 A 20080714; US 201113340395 A 20111229; US 201313747877 A 20130123; US 201414553009 A 20141125; US 201715409670 A 20170119; US 201715581147 A 20170428; US 22262308 A 20080813