

Title (en)

A SUCTION ROLL AND A METHOD OF OPERATING SUCH A SUCTION ROLL

Title (de)

SAUGWALZE UND VERFAHREN FÜR DEN BETRIEB EINER SOLCHEN SAUGWALZE

Title (fr)

ROULEAU ASPIRANT ET PROCÉDÉ DE COMMANDE DUDIT ROULEAU ASPIRANT

Publication

**EP 2697424 A1 20140219 (EN)**

Application

**EP 11714773 A 20110415**

Priority

EP 2011056037 W 20110415

Abstract (en)

[origin: WO2012139661A1] The invention relates to a suction roll (1) having a rotatable roll shell (2) with a plurality of perforations (3); a suction box (4) within the rotatable shell (2) which has a wall that defines an inner space (5) that is connected to or connectable to a source (6) of underpressure. The suction box (4) has a circular cylindrical cross section and it is arranged to remain stationary while the roll shell (2) rotates. A first seal (7) and a second seal (8) arranged on the suction box (4) delimit a suction zone. The wall of the suction box (4) has an air inlet zone (9) formed by at least one through-hole (10), the air inlet zone (9) is located in the area between the first seal (7) and the second seal (8) such that a suction zone (11) is formed in the area between the seals (7, 8) when the suction box (4) is connected to a source (6) of underpressure. With regard to the seals (7, 8), the air inlet zone (9) is asymmetrically placed in the circumferential direction of the roll shell (2) in such a way that it is displaced towards the second seal (8).

IPC 8 full level

**D21F 3/10** (2006.01)

CPC (source: EP)

**D21F 3/10** (2013.01)

Citation (search report)

See references of WO 2012139661A1

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

DOCDB simple family (publication)

**WO 2012139661 A1 20121018**; CN 103459713 A 20131218; CN 103459713 B 20160518; EP 2697424 A1 20140219; EP 2697424 B1 20160518

DOCDB simple family (application)

**EP 2011056037 W 20110415**; CN 201180070006 A 20110415; EP 11714773 A 20110415