

Title (en)
SUCTION EXCAVATOR WITH FLOW REVERSAL AND METHOD FOR CONTROLLING SAME

Title (de)
SAUGBAGGER MIT STRÖMUNGSUMKEHR SOWIE VERFAHREN ZU DESSEN STEUERUNG

Title (fr)
DRAGUE SUCEUSE À INVERSION DU FLUX AINSI QUE PROCÉDÉ DE COMMANDE ASSOCIÉ

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Application
EP 16717865 A 20160408

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Abstract (en)
[origin: CA2982509A1] The invention relates to a suction excavator (01) comprising a suction hose (02) with a suction opening (03) for pneumatically receiving solid or liquid suction material (04) by means of a fast flowing air flow. The suction excavator additionally has a separator (07) for separating the suction material (04) from the air flow, a filter unit (08) for cleaning the air flow, a ventilator unit (06) for generating the air flow, and a recirculation channel (13) which is connected to the pressure side (10) of the ventilator unit (06) via a volume-controllable recirculation opening. According to the invention, a volume-controllable auxiliary opening (16) is provided which allows auxiliary air (17) from the surrounding area to be supplied to the suction side (09) of the ventilator unit (06) downstream the filter unit (08) in the flow direction. The recirculation channel (13) can be fluidically coupled to the suction hose (02) in order to generate overpressure in the recirculation channel (13) to blow out recirculation air through the suction hose (02). The invention further relates to a method for controlling such a suction excavator.

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