

Title (en)

METHOD FOR PNEUMATICALLY PICKING UP SOIL FOR USE IN SUCTION DEVICES AND SUCTION TUBE FOR THIS PURPOSE AND USE OF SAID SUCTION TUBE

Title (de)

VERFAHREN ZUM PNEUMATISCHEN AUFNEHMEN VON ERDREICH FÜR SAUGVORRICHTUNGEN UND ABSAUGROHR HIERZU SOWIE VERWENDUNG EINES DERARTIGEN ABSAUGROHRES

Title (fr)

PROCEDE DE RECEPTION PNEUMATIQUE DE TERRE DU SOUS-SOL POUR DISPOSITIFS D'ASPIRATION, TUBE D'ASPIRATION CORRESPONDANT, ET UTILISATION D'UN TEL TUBE D'ASPIRATION

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Application

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Abstract (en)

[origin: WO2004088049A1] The invention relates to a method for pneumatically picking up soil for suction dredges, using a suction tube (3) having a crown (11) disposed at the lower end and an air supply device (10) for supplying pressurized air to the crown (11), thereby producing a pressurized air flow which loosens the soil in the area of the crown (11). The pressurized air flow below the crown (11) is blown into the soil in parallel to the cross-sectional plane of the crown (11), thereby detaching a soil core which has approximately the same size as the internal width of the crown (11) or smaller and which is sucked off through the suction tube (3). The invention also relates to a device for carrying out the inventive method which comprises at least one pointed tube (1) which projects beyond the crown (11) downward in the direction parallel to the center axis (30) of the suction tube (3). Said pointed tube is adapted for blowing a pressurized air flow into the soil below the crown (11) in parallel to a cross-sectional plane of the same for detaching a soil core and sucking the same off through the suction tube (3).

IPC 8 full level

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