

Title (en)
Catcher for fluid jet-cutting devices

Title (de)
Fangeinrichtung für Fluidstrahlschneidanlagen

Title (fr)
Dispositif de capture pour des appareils de coupe à jet de fluide

Publication
EP 0594092 B1 19970122 (DE)

Application
EP 93116761 A 19931016

Priority
• DE 4235090 A 19921017
• DE 4317680 A 19930527

Abstract (en)
[origin: EP0594092A1] Catcher for fluid jet-cutting devices which has an insert (18) which is provided with deflection bodies (20) which cover the screening floor (19) of the said insert (18), the said catcher being filled up to the inlet gap (28) with service water. It is built into a service water circuit in the case of which service water is pumped by a pump (12) from a multi-chamber settling basin (9) via a flexible tube (14) into a free space (21) which is situated between the screen floor (19) and the catcher floor (16). The outlet (17), through which the catcher (4) is drained into a tunnel (5) which is situated on the floor (31) of a trough (2), is passed through by less service water than is delivered by the pump (12) so that the service water fills the catcher (4) up to an overflow (25). The overflow (25) leads to pocket-like chambers (34) which extend over the entire sides (24) and have a floor strip (35) which drops sharply from the inflow to the outflow side of the catcher (4) and terminates immediately in front of the end face (36) of the chamber (34). The service water with sludge which runs into the trough (2) is pumped into the multi-chamber settling basin (9) by means of a sludge pump (8). Above the catcher (4) there is situated a grating which acts as a supporting table, covers the trough and is made of strips of material, against the underside of which there rest sealing strips (29) which take the form of brush strips. The bed of water situated above the gap (28) between the sealing strips (29) is made to splash up by the impact of a jet of fluid and fills the grating chamber situated above. <IMAGE>

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