

Abstract

Process and device for utilization of soot in
POX plants

The invention relates to a process for the material utilization of soot from the waste water (3) of a gasification appliance (heavy oil POX) (S) in which a hydrogen- and carbon monoxide-containing (crude synthesis gas) (4) is generated from relatively high-boiling hydrocarbons by partial oxidation, and also a device for carrying out the process. The soot-loaded waste water (3) from the heavy oil POX is mixed with naphtha (10) and is subsequently introduced into a separator (decanter) (D, D1) from which a substantially soot-free water fraction (13, 20) and a substantially water-free naphtha/soot mixture (12, 17) are taken off separately, wherein the naphtha/soot mixture (12, 17) is fed as feed to a further gasification appliance (naphtha POX) (N), in which appliance predominantly naphtha is converted into a crude synthesis gas (9) by partial oxidation.

Figure 1



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