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(54) Title: A PROCESS AND PLANT FOR PREPARING A PURIFIED BENZENE COMPOSITION FROM A CRUDE HYDRO-
CARBON STREAM CONTAINING BENZENE

(57) Abstract: The present invention relates to a process for preparing a purified benzene composition from a crude hydrocarbon stream containing at least 10% by volume of benzene comprising the following steps: a) subjecting the crude hydrocarbon stream and the further benzene containing stream recycled in step d) to a solvent based extraction so as to produce a benzene enriched aromatic stream and a benzene depleted non-aromatic stream, b) subjecting the benzene enriched aromatic stream obtained in step a) to a hydrosulfurization so as to obtain a desulfurized aromatic stream, c) subjecting the desulfurized aromatic stream obtained in step b) to a distillation so as to produce a purified benzene stream and a further benzene containing stream having a benzene concentration of between less than 100% by weight and the azeotropic benzene concentration, and d) at least partially recycling the further benzene containing stream obtained in step c) to step a).



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