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(54) Title: PROCESS FOR THE RECOVERY OF A LIGHT BOILER AND A HEAVY BOILER FROM A VAPOR STREAM

(57) Abstract: The present invention relates to a process for the recovery of a light boiler and a heavy boiler from a vapor stream, wherein the process comprises the steps of A1) introducing a vapor stream (1) 5 comprising a light boiler and a heavy boiler into a column (2) at a point at the bottom of said column (2), A2) withdrawing a vapor stream (3), enriched in the light boiler, from the top of the column (2), A3) withdrawing a liquid stream (4), enriched in the heavy boiler, from the bottom of the column (2), and splitting the stream (4) into a partial stream (5) and a partial stream (6), A4) recycling the stream (5) back into the column (2) at a point above the column, wherein the stream (5) is kept essentially 10 adiabatically during the recycling, A5) withdrawing a stream (7), enriched in a middle boiler, from the middle section of the column (2) and splitting the stream (7) into a partial stream (8) and a partial stream (9), A6) cooling the partial stream (9) in the heat exchanger (10) to provide the cooled stream (11) and recycling the stream (11) as stream (12) back into the column (2) at an introduction point below the top of said column, and A7) withdrawing the partial stream (6), enriched in the heavy boiler, 15 and the partial stream (8), enriched in the middle boiler.

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