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(54) Title: GOLD-CONTAINING CATALYST FOR REMOVAL OF HYDROGEN IN OXYGEN-RICH STREAMS

(57) Abstract: A process for removing hydrogen from an oxygen gas stream includes electrolysing water in an electrolyser to generate a hydrogen-rich stream and an oxygen-rich stream. The oxygen-rich stream includes hydrogen. The process also includes feeding the oxygen-rich stream to a reactor having a gold-containing catalyst and contacting, in the reactor, the oxygen-rich stream with the gold-containing catalyst. The gold-containing catalyst includes gold and a second metal on an oxidic support and an oxygen partial pressure of the oxygen-rich stream in the reactor is greater than 1 bar.

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