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(71) Applicant: TOPSOE A/S [DK/DK]; Haldor Topsøes Allé
1, 2800 Kgs. Lyngby (DK).

(72) Inventors: MORTENSEN, Peter Mølgaard; Tofteengen
27, 4000 Roskilde (DK). HANSEN, John Bøgild; GL.
Strandvej 190 A, 3050 Humlebæk (DK). JØRGENSEN,
Mathias; Hammersholt Byvej 41C, 3400 Hillerød (DK).

ESKESEN, Søren Grønborg; Granvej 18A, 3060 Es-
pergarde (DK).

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(54) Title: METHANOL LOOP REVAMP BY CO INTENSIFICATION

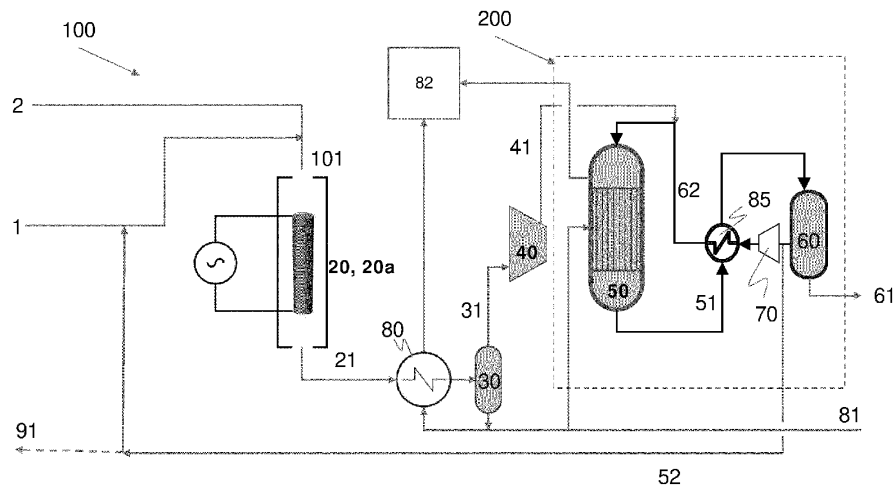


Fig. 2

(57) Abstract: A methanol plant is provided in which a first feed comprising CO₂ and a second feed comprising H₂ are provided, the combined feed is shifted in a CO₂ shift unit so as to provide a first synthesis gas stream. Water is removed in a water removal unit, to provide a second synthesis gas stream. A methanol synthesis section receives the second synthesis gas stream, and provides a product stream comprising methanol. A process for producing a product stream comprising methanol, and a process for upgrading a methanol plant are also provided.

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