

Title (en)
CO2 recovery apparatus and method

Title (de)
CO2-Rückgewinnungsvorrichtung und Verfahren

Title (fr)
Appareil et procédé de récupération de CO2

Publication
EP 2269711 B8 20120725 (EN)

Application
EP 09178598 A 20091210

Priority
JP 2009144586 A 20090617

Abstract (en)
[origin: EP2269711A1] A CO₂ recovering apparatus includes a CO₂ absorber (16) that brings flue gas containing CO₂ into contact with CO₂ absorbent to reduce the CO₂ contained in the flue gas; and a regenerator (18) that reduces CO₂ contained in rich solvent absorbing CO₂ to regenerate the rich solvent, so that lean solvent that is the CO₂ absorbent having the CO₂ reduced in the regenerator (18) is reused in the CO₂ absorber (16). The CO₂ recovering apparatus further includes a controller that detects the difference between the gas temperature (T₁) of the flue gas guided into the entrance of the CO₂ absorber (16) and the gas temperature (T₂) of the gas exiting the CO₂ absorber (16), and the absorbent concentration (X (Vol%)) of the CO₂ absorbent; and controls to adjust the amount of water contained in the gas depending on the gas temperature difference between the gas entering and the gas exiting the CO₂ absorber (16) and to keep the absorbent concentration of the CO₂ absorbent within a set range (e.g., X₀ ±10% in a relative ratio).

IPC 8 full level
B01D 53/14 (2006.01); **C01B 32/50** (2017.01)

CPC (source: EP US)
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Cited by
EP2767328A4; US9101912B2; US8192530B2; US9421491B2; US9901860B2; US8864878B2; WO2012106015A1; US9522359B2; US8911538B2; US9133407B2; US9028654B2

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EP 09178598 A 20091210; AU 2009245832 A 20091207; CA 2688126 A 20091207; DK 09178598 T 20091210; JP 2009144586 A 20090617; US 63341009 A 20091208