

(12) AUSTRALIAN PATENT ABSTRACT

(11) AU-A-59159/86

- (54)REMOVAL OF HCN, NH, AND COS FROM SYNTHESIS GAS (71) SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. (21) 59159/86 (22) 24.6.86 (24) 26/6/85 (3i) 749048 (32) 26.6.85 (33) US (43) 8.1.87 $(51)^4$ C10K 1/10 (72) WALTER LEWIS HEITZ
- (74) SF (57) Clain
- 1. A process for the gasification of carbon-containing fuel comprising the steps of
 - (a) partially combusting particulate carbon-containing fuel in a gasification zone comprising at least one gasification reactor, and producing a gaseous stream containing synchesis gas, particulate matter, and miner amounts of HCN, NH₃ and COS;
- (b) cooling said gaseous stream, and removing at least the bulk of the particulate matter therefrom, and scrubbing said gaseous stream in a scrubbing zone with an effective amount of an aqueous scrubbing solution and removing HCN, NH₃, COS and remaining particulate matter from said synthesis gas, producing a purified synthesis gas and loaded scrubbing solution;
- (c) stripping the bulk of the HCH, NH₃ and COS from at least a portion of said loaded scrubbing solution in a stripping zone, producing a gas mixture containing HCN, NH₃ and COS, and a stripped liquid mixture, and removing a did gas mixture from said stripped liquid mixture and said stripping zone; and
- (d) introducing at least a portion of said gas mixture into at least one gasification reactor of said gasification zone.

WERE THE SALE OF

