

(57) Abrégé(suite)/Abstract(continued):

emission monitoring system (CEMS) and an outlet CEMS of the ammonia-based desulfurization device or associated gas amounts, a SO_2 concentration provided by the inlet CEMS, and a predetermined SO_2 concentration of the outlet CEMS; calculating a corrected theoretical amount of ammonia using half of the ratio of the actual amount of added ammonia to the actual amount of removed sulfur dioxide as a correction coefficient for the theoretical amount of ammonia; adding an ammonia absorbent equivalent to the corrected theoretical amount of ammonia $\pm 10\%$ to the ammonia-based desulfurization device through an ammonia metering means and an ammonia control valve; and then automatically controlling the actual ammonia flow rate based on the actual SO_2 concentration and change trend provided by the outlet CEMS as a feedback, thereby achieving automatic ammonia addition. The automatic ammonia-adding system of the present invention can achieve automatic ammonia addition to ensure that clean flue gas meets ultralow emission requirements, and is characterized by stable and reliable system operation, a high automation degree and a simple process.

