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(54) Title: HYDROGEN CYANIDE PROCESS AND APPARATUS THEREFOR (57) Abstract A catalytic process and apparatus therefor for the manufacture of hydrogen cyanide. In the process an oxygen rich oxidant stream and at least one oxidant-free feed stream containing methane and ammonia are separately preheated and rapidly mixed to form a detonable mixed stream at a temperature which is at least 50 °C below the autoignition temperature of the mixed stream. The mixed stream is then conveyed to a catalyst capable of catalysing the formation of hydrogen cyanide at such a velocity that detonation is avoided. The process is more energy efficient and gives rise to an effluent stream containing more hydrogen than the conventional Andrussov process.		