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Press release

Patent application for an optimised process to produce endogas "ENDOGEN+GreenRetort"

Endogas is a mixture of carbon monoxide, hydrogen and nitrogen which is used in various industrial processes such as heat treatment or in the chemical industry. In the production of endogas, natural gas or propane is split with air at high temperatures under controlled conditions by using a catalyst in order to produce carbon monoxide and hydrogen.

Safety for the employees is a top priority in the production of endogas, as it is a flammable and potentially hazardous gas mixture. Safe handling of all system components, precise control and efficient production are essential in order to ensure successful application in industrial practice in the long term.

Conventional endogas production processes have long been suspected of posing various health and environmental hazards.

HAMMER Gas Engineering GmbH has now addressed this problem with the aim of developing a process which ensures the highest level of protection for the environment as well as for the employees. After intensive research and development work, the "ENDOGEN+GreenRetort" process has now been registered for patent.

The advantages:

- 1) The endogas is produced reliably without any carcinogenic substances.
- 2) Simple disposal of the retorts, as no substances hazardous to health or the environment are used.
- 3) No catalyst abrasion and therefore a longer service life for the catalyst is ensured.

The "GreenRetort" process is not only a component of all new systems from HAMMER Gas Engineering GmbH, but it can also be retrofitted to any ENDOGEN system from the company (or formerly Gebrüder Hammer GmbH).

We would be pleased to check whether the GreenRetort can be also used with other makes.

For publication and free of charge.

Reference or specimen copy requested.