OPTIMAL BIOGAS GENERATION FROM ALGAE - METHOD FOR A BIOTECHNOLOGICAL PRODUCTION OF BIOGAS VIA BACTERIAL FERMENTATION OF LOW-PROTEIN MICROALGAE BIOMASS

Ref-Nr: TA-4787

HINTERGRUND

The production of Biogas from algae biomass has been of interest for quite a long time. Microalgae is an interesting biosystem as it is really fast growing and has a high biomass productivity which is about ten times higher than conventional agriculture crops.

PROBLEMSTELLUNG

Until today, several obstacles like inefficient degradation and low C/N ratio limit the applicability of algae biomass for a large scale biogas production process.

LÖSUNG

The present invention overcomes most of the technical and biological difficulties and establishes now an improved cultivation and fermentation process for microalgae biomass.

VORTEILE

- Effective production process of biogas through continuous fermentation of microalgae
- Efficient energy source
- New optimized cultivation procedure (low-N) for fertilizer cost reduction
- No pretreatment of biomass needed
- Methane content (61%) in biogas, higher than plant material
- Highly efficient fermentation to biogas / methane without inhibition risks

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ENTWICKLUNGSSTAND

Funktionsnachweis

PATENTSITUATION

EP anhängig

CATEGORIES

//Weiße Biotechnologie //Grüne Biotechnologie //Umwelttechnik

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ANWENDUNGSBEREICHE

The described technology enables the fast and competitive production of biogas in a continuous biotechnological process in industrial scale.

SERVICE

In case of interest we are pleased to inform you about the current patent status. On behalf of the University of Bielefeld, PROvendis offers access to rights for commercial use as well as the opportunity for further co-development.

PUBLIKATIONEN & VERWEISE