

Title (en)

TWO-STEP FERMENTATION PROCESS FOR OBTAINING CELLULOSE AND GLUCONIC ACID

Title (de)

ZWEISTUFIGES FERMENTATIONSVERFAHREN ZUR GEWINNUNG VON CELLULOSE UND GLUCONSÄURE

Title (fr)

PROCÉDÉ DE FERMENTATION EN DEUX ÉTAPES POUR OBTENIR DE LA CELLULOSE ET DE L'ACIDE GLUCONIQUE

Publication

**EP 4041904 A4 20240110 (EN)**

Application

**EP 20835130 A 20200630**

Priority

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- IB 2020056175 W 20200630

Abstract (en)

[origin: WO2021001756A1] Present disclosure relates to a two-step fermentation process for obtaining cellulose and gluconic acid. The present two-step fermentation yields bacterial cellulose in first stage of fermentation and gluconic acid in second stage of fermentation. The produced bacterial cellulose and gluconic acid may be used in many industrial applications. Here, the process includes a first stage fermentation process for obtaining cellulose and a residual first stage broth. Similarly, a second stage fermentation process provides predetermined level of gluconic acid.

IPC 8 full level

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CPC (source: EP)

**C12P 7/58** (2013.01); **C12P 19/04** (2013.01)

Citation (search report)

- [A] CHIA-HUNG KUO ET AL: "Utilization of acetate buffer to improve bacterial cellulose production by Gluconacetobacter xylinus", FOOD HYDROCOLLOIDS, vol. 53, 1 February 2016 (2016-02-01), NL, pages 98 - 103, XP055500247, ISSN: 0268-005X, DOI: 10.1016/j.foodhyd.2014.12.034
- See references of WO 2021001756A1

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