

Title (en)

METHOD AND APPARATUS FOR THE THERMAL UTILIZATION OF SPENT GRAIN

Title (de)

VERFAHREN UND ANLAGE ZUM THERMISCHEN VERWERTEN VON BIERTREBERN

Title (fr)

PROCEDE ET APPAREIL POUR LA VALORISATION THERMIQUE DE LA DRECHE

Publication

**EP 1007884 B1 20011219 (DE)**

Application

**EP 97911953 A 19971118**

Priority

- AT 9700250 W 19971118
- AT 202296 A 19961120

Abstract (en)

[origin: WO9822751A1] In this method for the thermal utilization of wet spent grains (1), the wet spent grains (1) are pre-dried mechanically in a first drying stage (2). In a further drying stage (4), they are thermally dried, and finally thermally utilized by burning or gasification. In order for such a method to be economically practicable, in the further drying stage (4), the mechanically dehydrated malt spent grains (15) are heated with the aid of a flue gas stemming from the energy system of a brewery.

IPC 1-7

**F23G 5/04**; **F23G 5/027**; **F23G 5/46**; **F23G 7/10**

IPC 8 full level

**C12F 3/06** (2006.01); **F23G 5/027** (2006.01); **F23G 5/04** (2006.01); **F23G 5/46** (2006.01); **F23G 7/00** (2006.01); **F23G 7/10** (2006.01)

CPC (source: EP KR US)

**F23G 5/027** (2013.01 - EP US); **F23G 5/04** (2013.01 - EP KR US); **F23G 5/46** (2013.01 - EP US); **F23G 7/10** (2013.01 - EP US); **F23G 2201/10** (2013.01 - EP US); **F23G 2201/20** (2013.01 - EP US); **F23G 2201/40** (2013.01 - EP US)

Cited by

DE102009021692A1; DE102008028600A1; EP2136138A2; CN112944382A; DE102013107985A1; EP2136138A3; EP2253693A1; EP2292726A1; DE102010033664A1; EP2975109A1

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