

Title (en)

COLOR REMOVAL OF WATER WITH OZONE IN A TEXTILE BLEACHING PROCESS

Title (de)

FARBENTFERNUNG VON WASSER MIT OZON IN EINEM TEXTILEN BLEICHVERFAHREN

Title (fr)

ÉLIMINATION DE COULEUR DE L'EAU AVEC DE L'OZONE DANS UN PROCÉDÉ DE BLANCHIMENT DE TEXTILES

Publication

**EP 3362412 A1 20180822 (EN)**

Application

**EP 16779310 A 20160930**

Priority

- US 201562241301 P 20151014
- US 2016054680 W 20160930

Abstract (en)

[origin: WO2017066000A1] Embodiments relate generally to methods and systems for bleaching textiles using ozone gas that incorporates a color removal step. In one example, there is provided a hybrid machine that incorporates certain features of a washer, but that also includes an integrated blower for gas distribution inside the machine. There is also provided an ozone dosing control system that allows for maintenance of a constant concentration of ozone in the machine. In one embodiment, the ozone output measured in grams/hour at this constant concentration in conjunction with the weight of product measured being treated may be referred to as the "bleaching factor." There is further provided a wastewater dye removal step, in which ozone is used to clean the water and remove dyes and other colors that may be deposited via denim or other garments.

IPC 8 full level

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CPC (source: EP US)

**C02F 1/008** (2013.01 - EP); **C02F 1/78** (2013.01 - EP); **D06B 23/20** (2013.01 - EP); **D06B 23/205** (2013.01 - EP); **D06F 35/001** (2013.01 - EP US); **D06L 4/50** (2016.12 - EP); **D06L 4/70** (2016.12 - EP); **D06L 4/75** (2016.12 - EP); **D06P 5/153** (2013.01 - EP US); **C02F 2101/308** (2013.01 - EP); **C02F 2103/30** (2013.01 - EP); **C02F 2201/782** (2013.01 - EP); **D06F 34/28** (2020.02 - EP US); **D06F 2101/04** (2020.02 - EP US); **D06F 2101/20** (2020.02 - EP US)

Citation (search report)

See references of WO 2017066000A1

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