

Title (en)
APPARATUS AND METHOD OF ASEPTIC PACKAGING PERISHABLES

Title (de)
GERÄT UND VERFAHREN FÜR DIE KEIMFREIE VERPACKUNG VON LEICHTVERDERBLICHEN WAREN

Title (fr)
APPAREIL INDUSTRIEL DE CONDITIONNEMENT ASEPTIQUE DE DENREES PERISSABLES

Publication
EP 1335649 A4 20051019 (EN)

Application
EP 00986815 A 20001023

Priority
US 0041413 W 20001023

Abstract (en)
[origin: WO0234059A1] A process that kills, or renders organically inactive, one-hundred percent of the bacteria and enzymes, as well as any other non-pathogenic microorganisms present in fresh squeezed citrus and non-citrus fruit juices and fruit juice blends, as well as fruit pulps, and dairy products. The process results in the aseptic packaging of one hundred percent natural juices and milk having a shelf life extending from two to three years without the need for refrigeration, and without the use of artificial preservatives or additives. The process also preserves the natural taste, colors, and odors typically found in fresh squeezed juices and juice blends, an citrus pulp. The invention additionally encompasses an industrial apparatus kills, or otherwise deactivates the enzymes, bacteria, and microorganisms that cause spoilage in perishables such as fruit juice, fruit juice blends, fruit pulp, wines, milk, chocolate milk, butter, yogurt, cultured milk products, beer, malt and oat beverages, soups, and soft drinks. The industrial apparatus is capable of large batch processes and continuous operation. The perishables treated by the industrial apparatus have shelf lives that extend from two to three years without refrigeration and preservatives. The device also preserves the original natural taste, color, odor, and flavor found in these perishables when fresh.

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• [X] WO 0037872 A1 20000629 - DB IND [FR], et al
• [X] EP 0449124 A1 19911002 - VOGT HUBERT [DE]
• [X] FR 2614686 A1 19881104 - PUICERVERT LUC [FR]
• See references of WO 0234059A1

Cited by
CN108185345A; US7169420B2

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