

Title (en)
STERILIZATION PROCESS

Publication
EP 0375166 B1 19930303 (EN)

Application
EP 89312192 A 19891123

Priority
US 28605388 A 19881219

Abstract (en)
[origin: EP0375166A1] A sterilization arrangement which is adaptable to pumpable fluid-carrying packages on a conventional forming, filling and sealing machines as they are conveyed intermediate the turret for forming and sealing one end of the cartons and the section for filling and sealing the other end thereof. The process involved includes the following steps: spraying an up to 35% solution of hydrogen peroxide at room temperature into the open ends of paperboard packages having one sealed end resulting in a 300-400 parts per million concentration in the package; conveying the packages through an outside heating section very nearly in contact with a stationary cover member, while blowing hot air at a temperature in the range of 340-400 DEG F upwardly past the packages; conveying the cartons beneath and very nearly in contact with the stationary cover member extending along the length of a sterilization section and subjecting the packages to surrounding air at a temperature of 200-230 DEG F; drying the packages in a drying section by directing sterile air at a temperature of 200-240 DEG F into the open tops of the cartons, with the hydrogen peroxide concentration being reduced to a maximum of 0.05 parts per million; and unloading the respective sterilized cartons into the filling and final end sealing section.

IPC 1-7
B65B 55/10

IPC 8 full level
A61L 2/18 (2006.01); **B65B 55/10** (2006.01)

CPC (source: EP)
B65B 55/10 (2013.01)

Cited by
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DE GB IT SE

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