

Title (en)

A method for assembling filled packages

Title (de)

Verfahren zum Zusammenbringen gefüllter Verpackungen

Title (fr)

Procédé d'assemblage d'emballages remplis

Publication

EP 0798215 A1 19971001 (EN)

Application

EP 96202743 A 19961002

Priority

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Abstract (en)

The present invention is a method to assemble filled packages together into a secondary package. This method comprises the steps of: (1) feeding a film (1) into a vertical-form-fill-seal (= VFFS) machine in a flat configuration; (2) carrying the film to the forming shoulder (10), the forming shoulder comprising a filling head (11) and extending in a vertical tube; (3) pulling the film around the forming shoulder (10) forming a tubular configuration of the film; (4) sealing completely or partially the vertical edges (2) of the film; (5) sealing the tubular formed film on the opposite end to the filling head (11) so as to form a bottom seal (3) and having an open bag representing a secondary package; (6) filling the secondary package with more than one filled primary package by dropping the primary packages through the filling head of the forming shoulder and through the open end of the secondary package; (7) sealing the open end of the secondary package substantially tightly around the filled primary packages contained in the secondary package so as to form a top seal (4) and closing the secondary package around the filled primary packages; (8) cutting the closed secondary package above the top seal. To facilitate opening of the package any of the seals may be interrupted. <IMAGE>

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IPC 8 full level

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IPC 8 main group level

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Citation (search report)

- [X] US 4353196 A 19821012 - BEER FREDERICK W, et al
- [A] GB 1334616 A 19731024 - HAMAC HOELLER GMBH
- [A] US 4004398 A 19770125 - LARSSON LARS GORAN, et al
- [A] EP 0350617 A2 19900117 - KLINKEL WOLFGANG
- [A] FR 2698084 A1 19940520 - IND B V [FR], et al

Cited by

EP1582465A3; EP1582466A3

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WO 9735765 A1 19971002; AR 006416 A1 19990825; BR 9708278 A 19990803; CN 1219915 A 19990616; DE 69605893 D1 20000203; DE 69605893 T2 20000525; EP 0798215 A1 19971001; EP 0798215 B1 19991229; ES 2142015 T3 20000401; JP H11506997 A 19990622; ZA 972631 B 19971029

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US 9703699 W 19970318; AR P970101232 A 19970326; BR 9708278 A 19970318; CN 97194944 A 19970318; DE 69605893 T 19961002; EP 96202743 A 19961002; ES 96202743 T 19961002; JP 53442497 A 19970318; ZA 972631 A 19970326