

Title (en)
FILLING/PACKAGING METHOD AND FILLING/PACKAGING MACHINE

Title (de)
FÜLL-/VERPACKUNGSVERFAHREN UND FÜLL-/VERPACKUNGSMASCHINE

Title (fr)
PROCÉDÉ DE REMPLISSAGE/EMBALLAGE ET MACHINE DE REMPLISSAGE/EMBALLAGE

Publication
EP 4067242 A4 20240221 (EN)

Application
EP 20907476 A 20201215

Priority
• JP 2019236242 A 20191226
• JP 2020046809 W 20201215

Abstract (en)
[origin: EP4067242A1] To provide a filling and packaging method and a filling and packaging machine that can reliably eliminate a risk of inclusion of bacteria in a content filled in a tubular packaging material even when a vertical sealing failure occurs in a connection portion of a web-like packaging material. The filling and packaging method includes: detecting whether a connection portion W10 of a web-like packaging material W has passed through a predetermined position in a movement path of the web-like packaging material W; reducing a supply amount of a content into a tubular packaging material T based on detected passage information of the connection portion W10, to reduce a content filling level in the tubular packaging material T from a normal position L1 above a pressure flange 18 to a negative pressure occurrence avoidance position L2 below the pressure flange 18 before the connection portion W10 reaches an expected negative pressure occurrence area A where a negative pressure is likely to occur along with pulling-down of the tubular packaging material T by a pair of sealing jaws 161; and returning the content filling level from a negative pressure occurrence avoidance position L3 to the normal position L1 after the connection portion W10 passes through the expected negative pressure occurrence area A.

IPC 8 full level
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CPC (source: EP)
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Citation (search report)
• [A] EP 2284080 A1 20110216 - TETRA LAVAL HOLDINGS & FINANCE [CH]
• [A] EP 2277781 A1 20110126 - TETRA LAVAL HOLDINGS & FINANCE [CH]
• [A] JP 2005075401 A 20050324 - NIPPON SEIKI CO LTD
• [A] EP 0999131 A1 20000510 - NIPPON SEIKI CO LTD [JP]
• [A] JP 2015174664 A 20151005 - SHIKOKU KAKOKI CO LTD
• See also references of WO 2021131919A1

Designated contracting state (EPC)
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