

Title (en)
NARROWBAND CAN MANUFACTURING

Title (de)
HERSTELLUNG VON SCHMALBANDIGEN CAN

Title (fr)
FABRICATION DE BOÎTES AU MOYEN D'UN SYSTÈME DOTÉ DE STATIONS D'IRRADIANCE À BANDE ÉTROITE

Publication
EP 4164809 A1 20230419 (EN)

Application
EP 21822675 A 20210610

Priority

- US 202063037437 P 20200610
- US 202063094601 P 20201021
- US 2021036748 W 20210610

Abstract (en)
[origin: WO2021252724A1] Disclosed herein is a system for use in can manufacturing wherein cans are washed, decorated and/or a coating has been sprayed onto an inside surface of cans comprises a first station including a first array of semiconductor-based narrowband irradiation devices positioned to irradiate and dry the cans through a mesh or open-spaced belt of a mass conveyor or a serial conveyor, a second station including a second array of semiconductor-based narrowband irradiation devices positioned to irradiate and cure ink applied to outsides of cans being transported on a conveyor, and a third station including a third array of semiconductor-based narrowband irradiation devices positioned to individually and electrically heat inside surfaces of each can moved into a curing zone using optical elements positioned outside the open end of the can.

IPC 8 full level
B05D 3/02 (2006.01); **B05D 7/14** (2006.01); **B21D 51/26** (2006.01)

CPC (source: EP KR)
B05D 3/0263 (2013.01 - KR); **B05D 7/227** (2013.01 - KR); **B21D 51/26** (2013.01 - KR); **F26B 3/04** (2013.01 - EP KR); **F26B 3/30** (2013.01 - EP KR); **F26B 15/128** (2013.01 - EP KR); **F26B 15/18** (2013.01 - EP KR); **B05D 3/0263** (2013.01 - EP); **B05D 7/227** (2013.01 - EP); **B05D 2202/00** (2013.01 - EP KR); **B21D 51/26** (2013.01 - EP)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2021252724 A1 20211216; EP 4164809 A1 20230419; EP 4164809 A4 20241030; JP 2023530093 A 20230713; KR 20230033704 A 20230308

DOCDB simple family (application)
US 2021036748 W 20210610; EP 21822675 A 20210610; JP 2022576071 A 20210610; KR 20237000781 A 20210610