

Title (en)

CONTROL SYSTEM AND APPARATUS FOR CONTROLLING POWER CONSUMPTION OF A SHRINK TUNNEL.

Title (de)

SCHRUMPFTUNNEL ZUM AUFBRINGEN VON SCHRUMPPFOLIEN, VERFAHREN ZUM BETRIEB ODER STEUERN EINES SCHRUMPFTUNNELS SOWIE PRODUKTIONSANLAGE MIT EINEM SCHRUMPFTUNNEL

Title (fr)

TUNNEL DE RÉTRACTION POUR L'APPLICATION DE FILMS RÉTRACTABLES, PROCÉDÉ POUR FAIRE FONCTIONNER OU COMMANDER UN TUNNEL DE RÉTRACTION ET DISPOSITIF DE PRODUCTION COMPORTANT UN TUNNEL DE RÉTRACTION

Publication

EP 2547590 A1 20130123 (DE)

Application

EP 11702142 A 20110125

Priority

- DE 102010011640 A 20100316
- EP 2011000284 W 20110125

Abstract (en)

[origin: WO2011113506A1] The invention relates to a shrink tunnel for use in a production system for producing packaging units or containers from packaging elements filled with a product and with shrink film shrunk on, comprising at least one tunnel zone having heating means for shrinking the shrink film onto the packaging units moved through the tunnel zone under the influence of heat at a tunnel temperature, which is a target operating temperature in the normal undisturbed operating state or operating mode of the shrink tunnel.

IPC 8 full level

B65B 53/06 (2006.01); **F27B 9/40** (2006.01)

CPC (source: EP US)

B65B 53/063 (2013.01 - EP US); **F27B 9/10** (2013.01 - EP US); **F27B 9/40** (2013.01 - EP US); **B65B 2220/24** (2013.01 - EP US); **F27D 21/00** (2013.01 - EP US); **F27D 2019/0003** (2013.01 - EP US); **F27D 2019/0059** (2013.01 - EP US); **F27D 2019/0087** (2013.01 - EP US)

Citation (search report)

See references of WO 2011113506A1

Citation (third parties)

Third party :

- US 2004083687 A1 20040506 - CHRISTMAN RUSSELL T [US], et al
- US 4664923 A 19870512 - WAGNER DENNIS [US], et al
- US 7363728 B1 20080429 - MCNEIL DAVE [US], et al

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

DOCDB simple family (publication)

WO 2011113506 A1 20110922; BR 112012021983 A2 20180116; DE 102010011640 A1 20111117; DE 102010011640 B4 20200312; EP 2547590 A1 20130123; EP 2547590 B1 20160330; ES 2568526 T3 20160429; PL 2547590 T3 20161031; US 2013000256 A1 20130103; US 9926091 B2 20180327

DOCDB simple family (application)

EP 2011000284 W 20110125; BR 112012021983 A 20110125; DE 102010011640 A 20100316; EP 11702142 A 20110125; ES 11702142 T 20110125; PL 11702142 T 20110125; US 201113635022 A 20110125