

Title (en)  
EXTRUSION TECHNIQUE FOR FORMING POLYMER PREFORMS, AND TUBE-FORMING TECHNIQUE

Title (de)  
EXTRUSIONSTECHNIK ZUR BILDUNG VON KUNSTSTOFF-VORFORMLINGEN UND SCHLAUCHBILDUNGSTECHNIK

Title (fr)  
TECHNIQUE D'EXTRUSION POUR FORMER DES PRÉFORMES EN MATIÈRE PLASTIQUE ET TECHNIQUE DE FORMATION DE TUBES

Publication  
**EP 4045278 A1 20220824 (DE)**

Application  
**EP 20801162 A 20201015**

Priority  
• DE 202019105681 U 20191015  
• EP 2020079124 W 20201015

Abstract (en)  
[origin: WO2021074340A1] The invention relates to a tube-forming device for an extruder unit (4) or an extrusion device (1) and a tube-forming process. The tube-forming device (8) comprises at least one shaping sleeve (21a, 21b, 21c), which is designed to shape a supplied stream of polymer melt from a substantially strand-like cross section (QS) into a tubular cross section (QT). The shaping sleeve (21a, 21b, 21c) has a guiding passage (23) embedded in the sleeve wall (22), such that the guiding passage (23) is a cavity which lies within the sleeve wall (22) and, in the radial direction of the shaping sleeve (21a, 21b, 21c), is enclosed in a sealed manner with respect to the outer surfaces.

IPC 8 full level  
**B29C 48/335** (2019.01); **B29C 48/025** (2019.01); **B29C 48/09** (2019.01); **B29C 48/25** (2019.01); **B29C 48/325** (2019.01); **B29C 49/04** (2006.01)

CPC (source: EP US)  
**B29C 48/0255** (2019.02 - EP); **B29C 48/09** (2019.02 - US); **B29C 48/2552** (2019.02 - EP); **B29C 48/2556** (2019.02 - EP); **B29C 48/2564** (2019.02 - EP US); **B29C 48/325** (2019.02 - EP); **B29C 48/327** (2019.02 - US); **B29C 48/3366** (2019.02 - EP); **B29C 48/338** (2019.02 - EP); **B29C 48/525** (2019.02 - EP); **B29C 48/56** (2019.02 - EP); **B29C 48/635** (2019.02 - EP); **B29C 49/04108** (2022.05 - US); **B29C 48/0017** (2019.02 - EP); **B29C 48/09** (2019.02 - EP); **B29C 48/185** (2019.02 - EP); **B29C 48/21** (2019.02 - EP); **B29C 48/327** (2019.02 - EP); **B29C 48/336** (2019.02 - EP); **B29C 48/397** (2019.02 - EP); **B29C 48/67** (2019.02 - EP); **B29C 49/04** (2013.01 - EP); **B29C 49/04108** (2022.05 - EP); **B29C 49/22** (2013.01 - EP); **B29L 2023/22** (2013.01 - US)

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

DOCDB simple family (publication)  
**DE 202019105681 U1 20210119**; CN 114829105 A 20220729; EP 4045278 A1 20220824; US 2024092009 A1 20240321; WO 2021074340 A1 20210422

DOCDB simple family (application)  
**DE 202019105681 U 20191015**; CN 202080087070 A 20201015; EP 2020079124 W 20201015; EP 20801162 A 20201015; US 202017754868 A 20201015