

Title (en)  
PRODUCTION LINE FOR PROCESSING METAL SHEETS

Title (de)  
PRODUKTIONSLINIE ZUR BEARBEITUNG VON BLECHTAFELN

Title (fr)  
CHAÎNE DE PRODUCTION POUR TRAITER DES FEUILLES MÉTALLIQUES

Publication  
**EP 4313602 A1 20240207 (DE)**

Application  
**EP 22737431 A 20220621**

Priority  
• DE 102021129341 A 20211111  
• EP 2022066807 W 20220621

Abstract (en)  
[origin: WO2023083504A1] The invention relates to a production line (01) for processing metal sheets (08), having a metal sheet printing machine (03) and/or a coating machine (06), and having a continuous dryer (17) for drying the metal sheets (08) printed by the metal sheet printing machine (03) and/or coated by the coating machine (06), wherein directly upstream of the continuous dryer (17) in the transport direction (T) of the metal sheets (08) there is a loading station (02) for loading the continuous dryer (17) with the printed and/or coated metal sheets (08), the loading station (02) being designed to arrange metal sheets (08), which are fed successively thereto, individually in one of a plurality of wire frames (22) provided in the loading station (02), wherein a revolving traction means (29) is provided, said traction means (29) passing at least through the continuous dryer (17), wherein the traction means (29) has at least one coupling element (37), each coupling element (37) being designed to engage the associated wire frame (22), which has received one of the metal sheets (08), and to couple the wire frame (22) to the traction means (29), wherein directly downstream of the continuous dryer (17) there is an unloading station (07) for unloading the metal sheets (08) transported through the continuous dryer (17), the unloading station (07) being designed to decouple the wire frame (22) transporting the metal sheet (08) from the traction means (29), wherein a transport device (63) which is independent of the traction means (29) is provided, said transport device (63) being designed to transport wire frames (22) that have been decoupled from the traction means (29) at the unloading station (07) back to the loading station (02) individually or in stacked or imbricated form.

IPC 8 full level  
**B41F 19/00** (2006.01); **B41F 17/24** (2006.01); **B41F 21/08** (2006.01); **B41F 23/04** (2006.01); **B41F 23/08** (2006.01); **B65G 17/20** (2006.01); **B65H 5/00** (2006.01); **B65H 5/12** (2006.01); **B65H 9/00** (2006.01); **F26B 15/18** (2006.01)

CPC (source: EP)  
**B41F 19/00** (2013.01); **B41F 19/001** (2013.01); **B41F 21/08** (2013.01); **B41F 23/04** (2013.01); **B41F 23/0446** (2013.01); **B41F 23/0466** (2013.01); **B41F 23/08** (2013.01); **B65H 5/021** (2013.01); **B65H 5/224** (2013.01); **B65H 11/005** (2013.01); **B65H 2301/517** (2013.01); **B65H 2404/283** (2013.01); **B65H 2405/352** (2013.01); **B65H 2406/112** (2013.01); **B65H 2406/1132** (2013.01); **B65H 2701/173** (2013.01); **B65H 2801/31** (2013.01)

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)  
**DE 102021129341 B3 20220818**; EP 4313602 A1 20240207; WO 2023083504 A1 20230519

DOCDB simple family (application)  
**DE 102021129341 A 20211111**; EP 2022066807 W 20220621; EP 22737431 A 20220621