

Title (en)
SORTING SYSTEM FOR PARCELS AND METHOD FOR SORTING PARCELS

Title (de)
SORTIERANLAGE FÜR PAKETE SOWIE VERFAHREN ZUR PAKETSORTIERUNG

Title (fr)
INSTALLATION DE TRI POUR PAQUETS AINSI QUE PROCÉDÉ DE TRI DE PAQUET

Publication
EP 3820630 B1 20230329 (DE)

Application
EP 19727888 A 20190517

Priority
• EP 18183338 A 20180713
• EP 2019062821 W 20190517

Abstract (en)
[origin: WO2020011431A1] The invention relates to a sorting installation (1) for parcels (2) and to a method for sorting parcels (2) in a sorting installation (1). The object of the invention is to design the sorting process in sorting installations to be more efficient and to allow better sorting on the basis of properties of the parcels. According to the invention, a sorting installation (1) is provided, comprising at least one parcel inlet (3), which is set up to receive a multiplicity of parcels (2) to be sorted into the sorting installation (1). The sorting installation also comprises at least one parcel outlet (4), which is set up to discharge sorted parcels (2) from the sorting installation (1) to external transport means (5), and a conveying mechanism (6), which is set up to transport the parcels (2) to be sorted from the parcel inlet (3) into a sorting area (7) of the sorting installation (1). The sorting area (7) comprises a sorting mechanism (9), which is set up to sort the multiplicity of parcels (2) according to at least one item of parcel-related sorting information and to remove them from the conveying mechanism (6) at at least one transfer station of the sorting installation. The sorting area (7) also comprises primary buffer stores (10, 10A), which are set up to receive and temporarily store in each case at least one parcel (2) sorted by the sorting mechanism (9) according to the at least one item of parcel-related sorting information. The primary buffer stores are set up to be moved to the at least one transfer station depending on the at least one item of parcel-related sorting information.

IPC 8 full level
B07C 3/02 (2006.01)

CPC (source: EP US)
B07C 3/02 (2013.01 - EP); **B07C 3/08** (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

DOCDB simple family (publication)
EP 3593913 A1 20200115; CN 112512706 A 20210316; CN 112512706 B 20230630; EP 3820630 A1 20210519; EP 3820630 B1 20230329; US 11484914 B2 20221101; US 2021268548 A1 20210902; WO 2020011431 A1 20200116

DOCDB simple family (application)
EP 18183338 A 20180713; CN 201980047099 A 20190517; EP 19727888 A 20190517; EP 2019062821 W 20190517; US 201917260037 A 20190517