

Title (en)
PROCESSING APPARATUS

Title (de)
VERARBEITUNGSVORRICHTUNG

Title (fr)
APPAREIL DE TRAITEMENT

Publication
EP 2213601 A1 20100804 (EN)

Application
EP 08853960 A 20081119

Priority
• JP 2008070994 W 20081119
• JP 2007307778 A 20071128

Abstract (en)
Processing positional accuracy for processing a work 1 is improved in a processing apparatus 10 that processes a work 1 while intermittently halting the same without affecting the carrying of the work 1 at upstream and downstream processing positions Pn-1, Pn+1. The processing apparatus 10 intermittently halts and processes, at a processing position Pn, a belt-like work 1 that is continuously carried along a predetermined direction. The processing apparatus includes: a processing section 20 that is provided at the processing position Pn and that performs the processing on the work 1 while the work 1 is being halted; an entering-side buffer mechanism 34a that is provided on an upstream side of the processing section 20 in the predetermined direction and that can accumulate the work 1 carried from upstream; an exit-side buffer mechanism 34b that is provided on a downstream side of the processing section 20 in the predetermined direction and that can accumulate the work 1 having been processed and to be carried downstream; and a sending section 31b that is provided between the entering-side buffer mechanism 34a and the processing section 20 and that sends out the work 1 accumulated by the entering-side buffer mechanism 34a to the processing section 20. By restricting the work 1, the sending section 31b halts the work 1 at the processing position Pn, and performs simultaneously decrease of an accumulation amount of work accumulated by the exit-side buffer mechanism 34b and increase of an accumulation amount of work accumulated by the entering-side buffer mechanism 34a in such a manner as the decrease in the accumulation amount of the exit-side buffer mechanism 34b and the increase in the accumulation amount of the entering-side buffer mechanism 34a equal to one another. By canceling the restriction on the work 1, the sending section 31b releases the halt of the work 1, and performs simultaneously increase of the accumulation amount of the exit-side buffer mechanism 34b and decrease of the accumulation amount of the entering-side buffer mechanism 34a in such a manner as the increase in the accumulation amount of the exit-side buffer mechanism 34b and the decrease in the accumulation amount of the entering-side buffer mechanism 34a equal to one another.

IPC 8 full level
B65H 23/18 (2006.01); **A61F 5/44** (2006.01); **B65H 20/04** (2006.01); **B65H 20/24** (2006.01)

CPC (source: EP US)
B65H 20/24 (2013.01 - EP US); **B65H 2301/4491** (2013.01 - EP US); **B65H 2404/1421** (2013.01 - EP US)

Cited by
EP2404583A4; EP3593919A1; US11484931B2; US11912022B2; WO2021033121A1

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

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 2213601 A1 20100804; **EP 2213601 A4 20120111**; AR 069467 A1 20100127; AU 2008330820 A1 20090604; AU 2008330820 B2 20120830; BR PI0819003 A2 20150908; CA 2703669 A1 20090604; CL 2008003514 A1 20100604; CN 101808922 A 20100818; CO 6280417 A2 20110520; EA 017655 B1 20130228; EA 201000782 A1 20101230; EG 25708 A 20120529; JP 2009132473 A 20090618; JP 4914815 B2 20120411; KR 20100092486 A 20100820; MA 31938 B1 20101201; MX 2010005808 A 20100609; MY 151390 A 20140530; TW 200936480 A 20090901; UA 101486 C2 20130410; US 2010276466 A1 20101104; WO 2009069517 A1 20090604

DOCDB simple family (application)
EP 08853960 A 20081119; AR P080105103 A 20081125; AU 2008330820 A 20081119; BR PI0819003 A 20081119; CA 2703669 A 20081119; CL 2008003514 A 20081126; CN 200880109577 A 20081119; CO 10060810 A 20100521; EA 201000782 A 20081119; EG 2010050877 A 20100526; JP 2007307778 A 20071128; JP 2008070994 W 20081119; KR 20107013190 A 20081119; MA 32952 A 20100625; MX 2010005808 A 20081119; MY PI20102352 A 20081119; TW 97145926 A 20081127; UA A201007863 A 20081119; US 68260508 A 20081119