

Title (en)

Machine and method for sorting and regrouping individual articles in order to package these in predetermined quantities

Title (de)

Vorrichtung und Verfahren zum Sortieren und Umgruppieren von Einzelgegenständen zum Zwecke ihrer Verpackung in vorbestimmten Mengen

Title (fr)

Machine et procédé de tri et de regroupement d'articles individuels en vue de leur conditionnement par quantité prédéterminée

Publication

EP 0763470 B1 20031015 (FR)

Application

EP 96460032 A 19960918

Priority

FR 9511127 A 19950918

Abstract (en)

[origin: EP0763470A1] The system uses an artificial vision unit (3) including a matrix camera (7) whose zone of vision (9) encompasses at least a part of the collection means (1). The vision system (3) permits the referencing and counting of the articles passing through the vision zone (9). A retention comb (4) temporarily restrains the articles driven by the collection system (1). The comb (4) is placed on the downstream side of the vision zone (9), and has a number of teeth (10, 11) each of which can take up two positions, that is to say a rest position and a retention position, in which the teeth hinder the movement of the articles or let them pass freely. The vision system (3) sends control data to the comb (4) so that the comb's teeth are lowered from the rest position to the retention position, until the end of the inspection cycle. Lowering of certain teeth is delayed so as to selectively authorise the passage of the last articles (32) which enables the matching of the number of articles (N) with the predetermined quantity (NO) for the current inspection cycle.

IPC 1-7

B65B 57/20; **G06M 3/02**

IPC 8 full level

B65B 57/20 (2006.01); **G06M 3/02** (2006.01)

CPC (source: EP)

B65B 57/20 (2013.01); **G06M 3/02** (2013.01)

Cited by

BE1018917A3; FR2939769A1; EP2105217A1; FR2929405A1; WO2010097684A3; WO2013016881A1; WO2010067190A3; EP2105699A1; EP2105699B1

Designated contracting state (EPC)

AT BE CH DE DK ES FI GB GR IE IT LI NL PT SE

DOCDB simple family (publication)

EP 0763470 A1 19970319; **EP 0763470 B1 20031015**; AT E252021 T1 20031115; DE 69630349 D1 20031120; DE 69630349 T2 20040708; DE 763470 T1 20020822; ES 2208723 T3 20040616; FR 2738799 A1 19970321; FR 2738799 B1 19971205

DOCDB simple family (application)

EP 96460032 A 19960918; AT 96460032 T 19960918; DE 69630349 T 19960918; DE 96460032 T 19960918; ES 96460032 T 19960918; FR 9511127 A 19950918