

Title (en)  
A grading machine.

Title (de)  
Sortiermaschine.

Title (fr)  
Machine de calibrage.

Publication  
**EP 0405943 A1 19910102 (EN)**

Application  
**EP 90307031 A 19900627**

Priority  
GB 8914903 A 19890629

Abstract (en)  
A grading machine for grading articles by size, eg fruit and vegetables such as apples, tomatoes and potatoes, comprising: a grading tray (1) provided with at least one elongate opening (3) which increases in width from one end to the other; resilient mountings (5) supporting the grading tray (1) in a manner which allows it to be oscillated; and one or more pneumatic pistons (6) arranged to oscillate the grading tray (1). The oscillation being such as to lift and move the grading tray (1) forward during each cycle, the angle of the forward movement with the horizontal and the amplitude and frequency of the oscillation being such as to cause articles on the grading tray (1) to move from the narrow end of the opening (3) towards the wide end until they reach a position where they are able to pass through the opening (3) whereupon they are directed by an off-take tray (9) into containers (10).

IPC 1-7  
**B07B 1/30**; **B07B 13/07**

IPC 8 full level  
**B07B 1/42** (2006.01); **B07B 13/07** (2006.01)

CPC (source: EP)  
**B07B 1/42** (2013.01); **B07B 13/07** (2013.01)

Citation (search report)  

- [A] DD 239957 A1 19861015 - HALLE SAAT & PFLANZENGUT [DD]
- [A] FR 2467025 A1 19810417 - BROBST ANDRE [FR]
- [A] GB 2174666 A 19861112 - BACKUS SORMAC
- [A] AT 385213 B 19880310 - LICENTIA GMBH [DE]

Cited by  
US8297446B2

Designated contracting state (EPC)  
BE FR GB LU NL

DOCDB simple family (publication)  
**EP 0405943 A1 19910102**; GB 2233256 A 19910109; GB 2233256 B 19930721; GB 8914903 D0 19890823

DOCDB simple family (application)  
**EP 90307031 A 19900627**; GB 8914903 A 19890629