

Title (en)

Improved mechanism for glass container inspection apparatus.

Title (de)

Perfektionierter Mechanismus für eine Prüfvorrichtung von Glasbehältern.

Title (fr)

Mécanisme pour appareil d'inspection de récipient en verre.

Publication

**EP 0319180 A2 19890607 (EN)**

Application

**EP 88310956 A 19881121**

Priority

US 12835787 A 19871202

Abstract (en)

An improved mechanism for coordinating the transport of a glass container through an inspection zone with the movement of an inspection head relative to the container. In a plug gager, a carriage (16) which holds the plug gage (13) is moved in the direction of container travel by a cam (90), while an eccentrically-mounted bearing moves the plug gage vertically to penetrate the container finish. The invention provides an improved cam profile (95) to provide an increased maximum stroke (amount of gage penetration) making the apparatus adaptable to a wider range of container sizes. Relative to prior art cams for apparatus of this type, the constant velocity segment of the cam motion is extended. A similar adaptation to a leak detector utilizing this cam-driven carriage and inspection head arrangement lengthens the segment of each cycle during which inspection occurs, increasing the sensitivity of the system. In a check detector utilizing this arrangement, this improved cam-driven mechanism provides increased inspection speed and accuracy, and allows better stopping of containers at high speeds.

IPC 1-7

**B07C 5/12**; **F16H 25/00**; **F16H 25/14**

IPC 8 full level

**G01N 21/84** (2006.01); **B07C 5/12** (2006.01); **G01N 21/90** (2006.01)

CPC (source: EP)

**B07C 5/124** (2013.01)

Cited by

CN108787493A; CN112058707A; CN117703884A; US7387039B1; US6871415B2

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**EP 0319180 A2 19890607**; **EP 0319180 A3 19900314**; AU 2588488 A 19890615; BR 8806135 A 19890815; CN 1034434 A 19890802; JP H01202646 A 19890815

DOCDB simple family (application)

**EP 88310956 A 19881121**; AU 2588488 A 19881124; BR 8806135 A 19881118; CN 88108243 A 19881202; JP 30583288 A 19881202