



Euro Asia Products Inc
DESIGN & MANUFACTURING
Houseware and Hardware Solutions

EuroAsia Products Inc.

3956 Town Center Blvd. #166 Orlando, Florida 32837 Phone: 321-221-9398 Fax 407 650 2626

February 10, 2008

REFERENCE: ***Mailbox mechanical patent announcement***

SUBJECT: *20 year mechanical patent issued for the door restraint bracket*

We would like to inform you of the issuance of USA Patent # 7,252,221 B1. This invention makes many new mailbox designs and material usages possible.

This invention protects mailbox doors, hinges, floors, bodies, and sidewall edges from damages. This is accomplished by controlling the impact forces resulting from the mass of a free swinging door's impacting against other key parts of the mailbox. The greater the mass of the door, the more advantage this device provides. This device limits forces, redirects forces away from vulnerable line and point contact areas on key components, then transfers and dissipates the forces to the sidewalls of the mailbox without consequence. With this device key mailbox components of various designs and materials are far less likely to break, crack, shatter, or simply fallen apart from use.

This device enables manufacturers to fully comply with the preferences for door closure stated in USPS -STD-7B 3.4 Carrier Service Door requirements. ***"The door must rotate a minimum of 100 degrees when open and it is preferred that the maximum rotation be limited to 120 degrees or less"***.

This device limits the door rotation by allowing the manufacture to control and set the rotation stop point. It can easily and precise be controlled and set to a defined point within a 100 to 120 degrees range.

This device: protects the mailbox, extends the life of the mailbox, controls the door rotation precisely to fully meet the requirements and preferences of USPS-STD-7B 3.4. This device generally just makes the mailbox work better and thereby a better product.

We have enclosed a copy of the patent for your convenience. If you have interest in the use of this patent or one of our other patents we invite you to contact us to discuss arrangements.

Sincerely yours,

John Bowers
President EuroAsia Products Inc.

Enclosure (1)

sl

The
United
States
of
America



**The Director of the United States
Patent and Trademark Office**

Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America for the term set forth below, subject to the payment of maintenance fees as provided by law.

If this application was filed prior to June 8, 1995, the term of this patent is the longer of seventeen years from the date of grant of this patent or twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

If this application was filed on or after June 8, 1995, the term of this patent is twenty years from the U.S. filing date, subject to any statutory extension. If the application contains a specific reference to an earlier filed application or applications under 35 U.S.C. 120, 121 or 365(c), the term of the patent is twenty years from the date on which the earliest application was filed, subject to any statutory extensions.

Jon W. I. Dudas

Director of the United States Patent and Trademark Office



US007252221B1

(12) **United States Patent**
Bowers

(10) **Patent No.:** **US 7,252,221 B1**

(45) **Date of Patent:** **Aug. 7, 2007**

(54) **MAILBOX DOOR RESTRAINT**

(75) Inventor: **John M. Bowers**, Orlando, FL (US)

(73) Assignee: **EuroAsia Products, Inc.**, Orlando, FL (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 22 days.

| | | | |
|-----------------|--------|---------------|---------|
| 3,827,626 A | 8/1974 | Daigle | 232/17 |
| 3,874,583 A * | 4/1975 | Moll | 232/17 |
| 4,186,869 A | 2/1980 | Brown | 232/17 |
| 4,901,913 A | 2/1990 | Fischer | 232/17 |
| 4,905,892 A | 3/1990 | Fischer | 232/17 |
| 5,339,980 A | 8/1994 | Stutler | 220/571 |
| 5,921,117 A * | 7/1999 | Illguth | 70/159 |
| 6,234,388 B1 | 5/2001 | Taylor | 232/47 |
| 6,244,505 B1 | 6/2001 | Grimes et al. | 232/47 |
| 6,772,939 B1 | 8/2004 | Simpson | 232/38 |
| 2002/0059691 A1 | 5/2002 | Audisio | 16/374 |

(21) Appl. No.: **11/241,616**

(22) Filed: **Sep. 30, 2005**

(51) **Int. Cl.**
B65G 11/04 (2006.01)

(52) **U.S. Cl.** **232/45**; 232/17

(58) **Field of Classification Search** 232/45, 232/44, 17, 38; D99/29-32, 43
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

| | | | |
|---------------|---------|--------------|----------|
| 1,037,348 A | 9/1912 | Smith | |
| 1,136,505 A | 4/1915 | Razny | |
| 1,690,967 A | 11/1928 | Cobb | |
| 1,824,881 A | 9/1931 | Foss | |
| 2,169,855 A * | 8/1939 | Stough | 232/41 D |
| 2,437,053 A * | 3/1948 | Swanson | 232/17 |
| 2,484,718 A * | 10/1949 | McCullar | 232/35 |
| 2,960,265 A * | 11/1960 | Simon | 232/25 |
| 3,208,668 A * | 9/1965 | Dickins, Sr. | 232/33 |
| 3,722,460 A | 3/1973 | James, Sr. | 116/132 |
| 3,733,026 A * | 5/1973 | Rowe et al. | 232/35 |
| 3,758,027 A * | 9/1973 | Morgan | 232/17 |

* cited by examiner

Primary Examiner—William L. Miller

(74) *Attorney, Agent, or Firm*—Brian S. Steinberger; Law Offices of Brian S. Steinberger, P.A.

(57) **ABSTRACT**

Door stop and impact absorber bracket for restraining mailbox doors from opening beyond a selected swing radius. The bracket can fit underneath the mailbox behind an existing lower hanging lip. The door stop bracket is positioned such that it limits the door from swinging beyond a desired point (for example approximately 90 degrees) when the door is opened. The bracket can have an elongated rectangular planar central portion, with bent ends, together forming a generally C-shape. The bracket can have cushion pad to protect both the door, hinges other components and even the body of the mail box from being damaged from excessive vibrations when the door reaches the maximum opening point. The pad can also reduce objectionable impact noise effects that are created when a mailbox door accelerates in a free fall to a stop.

11 Claims, 11 Drawing Sheets

