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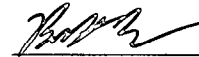
June 29, 2005

Commissioner for Trademarks
P.O. Box 1451
Alexandria, Virginia 22313-1451

Re: Applicant: Armament Systems and
Procedures, Inc.
Mark: STYLIZED AND/OR DESIGN
Serial No. 78/428,676
Filed: June 2, 2004
Our File No. 8342-85716

I hereby certify that this paper is being deposited with the United States Postal Service with sufficient postage as First-Class Mail in an envelop addressed to: Commissioner for Trademarks, P.O. Box 1451, Alexandria, Virginia 22313-1451, on this date:

06/29/05
Date



Dear Sir or Madam:

Enclosed are the following documents:

1. Transmittal letter (in duplicate);
2. Response to Trademark Office Action; and
3. Postcard.



07-07-2005

U.S. Patent & TMOfc/TM Mail Rcpt Dt. #74


The Commissioner is hereby authorized to charge any fees, which may be required, or credit any overpayment, to Deposit Account No. 23-0920. A duplicate copy of this sheet is enclosed.

Very truly yours,

WELSH & KATZ, LTD.

By: 
Brett M. Tolpin

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Armament Systems and Procedures, Inc.) Trademark Law Office 105
Serial No.: 78/428,676) I hereby certify that this
Filed: June 2, 2004) correspondence is being deposited with
Class(es): 001) the United Postal Service as first-class
Mark: STYLIZED AND/OR) mail in an envelope addressed to:
DESIGN) Commissioner for Trademarks, P.O.
Examiner: Barbara Rutland) Box 1451, Alexandria, Virginia 22313-
Attorney Docket No.: 8342-85716) 1451 on June 29, 2005.
) 
) _____
) Brett M. Tolpin
) Attorney for Applicant

RESPONSE TO TRADEMARK OFFICE ACTION

Box RESPONSES – No Fee
Commissioner for Trademarks
P.O. Box 1451
Alexandria, Virginia 22313-1451

Dear Ms. Rutland:

In response to Trademark Office Action, emailed on January 19, 2005, Applicant respectfully responds as follows:

No Conflicting Marks

The Applicant acknowledges that the Trademark Examining Attorney has searched the Office records and has found no similar registered or pending marks, which would bar registration under Trademark Act Section 2(d), 15 USC 1052(d); TMEP 1105.01.

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Trademark Law Office: 105

Product Packaging for Goods is Inherently Distinctive.

The Examining Attorney refuses registration reasoning that the mark appears to be functional for packaging for chemical agents for personal self-defense and is therefore precluded from registration under §2(e)(5) of the Lanham Act. Applicant asserts that the pepper spray dispenser, which is the *subject* of this trademark application, is a unique and fanciful shape and provides no real utilitarian advantages to the user, but rather is simply one of many equally feasible, efficient, and competitive designs. See *In re Morton-Norwich Products, Inc.*, 671 F. 2d 1332, 213 USPQ 9 (C.C.P.A. 1982); TMEP §§1202(b)(i) and 1202(b)(ii).

While a configuration or shape of a container is not registrable for the container per se, it may be registrable for a particular product contained therein if the shape is non-functional in character and is, moreover, inherently distinctive or has acquired secondary meaning as an indication of origin for such goods. See *In re Mogen David Wine Corp.*, 140 USPQ 575 (CCPA, 1964).

The product packaging trade dress is inherently distinctive for reasons of its lean, elongated design, petite cylindrical shape, and fanciful grooves in the midsection. These features coupled with the protruding knurl, top button with, and bottom hole where fluid is released in totality create a unique and fanciful trade dress. The other competitive, equally feasible products are exemplified below in Section A.

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A. Evidence of Competitor's Products

The Applicant responds to Inquiry No. 3 with evidence contained in Exhibit A containing competitor's products and packaging designs. This list is not nearly exhaustive because our search on Yahoo® yielded over 693,000 hits for the search term "pepper spray" with most websites appearing to sell various pepper spray devices. This evidence demonstrates a plethora of various hand activated, aim and push button pepper spray packaging devices (or equivalent thereof including Mace brand). Due to the large number of hits, only a small fraction of the evidence is exemplified below:

1. Applicant's spiral bound booklet entitled *Chemical Defense Product Comparison* makes thirty (30) examples by visual comparison between Applicant's product and competitor's products.
2. Talley Security Personal Protection products demonstrate at least six different hand-held pepper spray devices, which can be used in conjunction with a keychain. The hand grips show various colors, appendages for fastening, as well as smooth or grooved grips.

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3. The Pepper Spray Store's pepper spray products show various forms of product packaging in the form of:

- i. Pens.
- ii. Lipstick case.
- iii. Miniature hand held device.
- iv. Jogging weights.
- v. Large hand-held device called "Fogger."
- vi. Keychain.
- vii. Pagers.

b. 911 Total Defense displaying Mace Brand's products is considered directly competitive with Applicant's pepper spray products. Although the products chemical consistency is different, the desired result of self-defense is essentially equivalent. The various product packaging designs include:

- i. The plastic hand-held grip with finger grooves.
- ii. A thinner, elongated package.
- iii. A different button and with dispenser appearing to have vertical ribbed lines.
- iv. Wildfire brand with vertical lines on side and horizontal lines in front of packaging.

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- v. Mace pepper pen that fattens in the middle and has a lid.
- vi. An ornamental ring to be worn on a hand.

B. Patent Inquiry

The Examining Attorney has requested disclosure of all existing and expired patents, as well as pending patent applications. *See Examiner Inquiry No. 1, page 3 of Office Action No. 1 e-mailed on January, 19, 2005.*

Kevin L. Parsons ("Parsons") U.S. Patent No. 5,509,581, which issued on April 23, 1996, pertains to a Chemical Irritant Dispenser and Parsons U.S. Patent No. 5,839,624, which issued on November 24, 1996, pertains to a Horizontal Release Aerosol Canister. On July 23, 2004, Parsons filed two patents applications with the United States Patent and Trademark Office, which are entitled Tactical Defense Aerosol Device and Tactical Defense Device Having Baton and Spray Dispensing Capabilities, respectively.

U.S. Patent Nos. 5,509,581 and 5,836,624 and pending patent applications do not relate to the subject of this trademark application, but the utility feature contained within the dispenser. *See Exhibit B.* Various mechanisms for a powerful release of the chemical agent contained within the canister or dispenser is essentially the patentable subject matter of this application. The pepper spray canister is nothing more than a shell housing the functional aspect of the invention. *See In re Creative Beauty Innovations, Inc., 56 USPQ2d 1203 (TTAB 2000) (bottle configuration found inherently distinctive).* Similar to

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In re Creative Beauty Innovations, the canister holding pepper spray is legally equivalent to a bottle in that it merely houses the product and can come in a variety of arbitrary and suggestive shapes.

C. Applicant's Advertising, Promotional and Explanatory Material

Applicant submits that the advertising material taken from the Internet and applicant's catalogue comply with the Examining Attorney's Inquiry No. 2. *See Examiner Inquiry No. 2, page 3 of Office Action No. 1, e-mailed on January 19, 2005.* This advertising material found in Exhibit C illustrate that the utilitarian or functional aspect is not the packaging or container but rather contained within the packaging or container. *See photocopy of Applicant's catalogue entitled BreakAway . . . When Seconds Count.*

The cylindrical shape, color, grooves, and how the configuration is displayed is advertised as an indicator of source and is capable of registration.

D. Cost to Manufacturer

In response to the Examining Attorney's inquiry regarding cost of manufacturing the pepper spray dispenser, the Applicant asserts that the product packaging design at issue does not result from a comparatively simple or inexpensive method of manufacture in relation to alternative designs for the container.

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E. Based on the Seabrook Factors, the Configuration of the Packaging is Distinctive

The evidence provided in Exhibits A and C gives ample evidentiary support to the conclusion that the proposed mark consisting of the package configuration of a pepper spray dispenser with knurling: (1) is not a common or basic shape or design for pepper spray or mace dispensers, (2) is unique and unusual in the personal defense field, and (3) creates distinctive commercial impression.

Typically, dispensers containing an aerosol pepper spray or other irritant are found in a classic aerosol canister, and are held in a vertical position when deployed. There are plenty of variations of the vertically hand-held pepper spray dispensers, but these are mere refinements of the basic shape. The subject mark of this application contains a different style of dispenser altogether with different placements of the trigger on one side of the cylinder and the hole to dispense the pepper spray on the other. The packaging configuration of the pepper spray dispenser is wholly original in appearance and as a source indicator is distinguishable from the traditional aerosol dispenser.

The threshold question is whether the packaging functions independently in identifying and distinguishing the goods of Armament Systems and Procedures, Inc. than others. Based on this fanciful and unique packaging, the answer is in the affirmative. *See Seabrook, p. 291.*

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Secondary Meaning

The Applicant submits evidence of secondary meaning for purposes of proving acquired distinctiveness under §2(f) of the Trademark Act by virtue of a sworn declaration.

TMEP § 1212.05(d), 37 CFR §2.41(b). *See Exhibit D.*

Applicant's use in commerce began fourteen (14) years ago in 1991, and the Applicant has considerable advertising and marketing product exposure via online, mail order, and retail store sales of the subject mark in this Application. The Applicant has continuously and exclusively used the mark in commerce for these 14 years and, as stated in the attached Declaration of Dr. Kevin L. Parsons, from 1998 until the present has sold nearly four million dollars worth of goods featuring the mark and has substantially exceeded four million dollars in sales from 1991 until present.

Description of the Mark

The Applicant hereby amends the description of the mark as follows:

The mark consists of a packaging configuration of a personal self-defense spray dispenser[s]. The plunger portion of the dispenser has a hole through it that may be used

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to insert a key chain ring. The stippling in the drawing is a feature of the mark and not intended to show color.

Identification of Goods

The Trademark Examining Attorney has indicated that the identification of goods as proposed by the Applicant is unacceptable as indefinite.

In response thereto, the Applicant adopts the Trademark Examining Attorney's suggestions. The identification of goods is amended to the following:

Chemical agents for personal self-defense sold in aerosol dispensers in class 1.

The application has been amended as per the suggestions of the Trademark Examining Attorney to clarify or limit the identification of goods and no additions to the identification were made in accordance with 37 CFR §2.71(a); TMEP §1402.06; so that amended goods are within the scope of the goods recited in the original and present identification.

Substitute Specimens

Pursuant to 37 C.F.R. §2.20 and §2.59(a), the applicant provides the following mail order catalogue displaying the goods and providing the required address, phone, and fax for which to order the goods. *See attached declaration and substitute specimens in Exhibit E.*

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Remarks

The Applicant thanks the Trademark Examining Attorney for her assistance in this Application. Reconsideration of this Application in light of the preceding is respectfully requested.

In conclusion, it is submitted that Applicant has fully complied with the Trademark Examining Attorney's requests to provide substitute specimens, the accompanying declaration, to provide a description of the mark and acceptable identification of the goods, has responded to all of the Trademark Examining Attorney's inquiries, and traversed and/or cured the remaining objections of the Trademark Examining Attorney. In view of the preceding, it is respectfully submitted that the application is now in condition for allowance and should be passed to publication.

Respectfully submitted,



Brett M. Tolpin
Attorney for Applicant

WELSH & KATZ, LTD.
120 South Riverside Plaza
22nd Floor
Chicago, IL 60606
Phone: (312) 655-1500

Link to
Our Site
and Earn
\$55

TALLEY SECURITY

Self Defense and Personal Protection Products

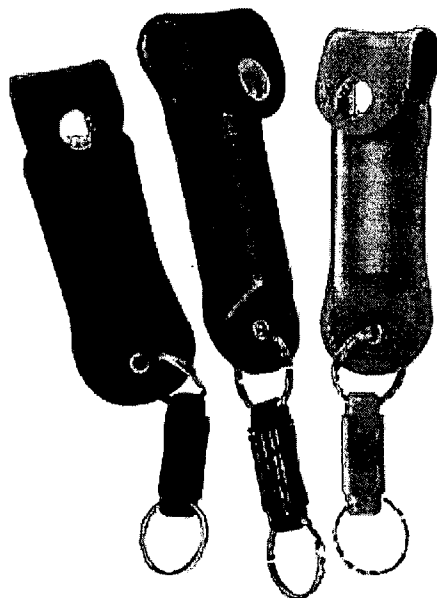
Home Page
Order Catalog
E-MENUS

Pepper Shot™ is a 10% pepper spray rated at 2 million scoville heat units and made with a very fine grain that is more effective than the coarser grains of most other pepper sprays. In addition to causing an attacker pain, **Pepper Shot** swells the mucous membranes, which makes breathing difficult, and swells the veins in the eyes, causing the eyes to close. These effects last 20-30 minutes and cause no permanent damage. All sprays have locking actuators for extra safety.

Sorry, no Pepper Spray orders to New York or out of the USA.

Shipping is FREE (Continental USA orders only) if you order a minimum of **\$50.00** from our web site. Otherwise we will add **\$6.00** shipping.

1/2 ounce with Leatherette Holster, locking actuator and Quick Key release keychain. Effective up to 8 feet. Contains 5 one second bursts.

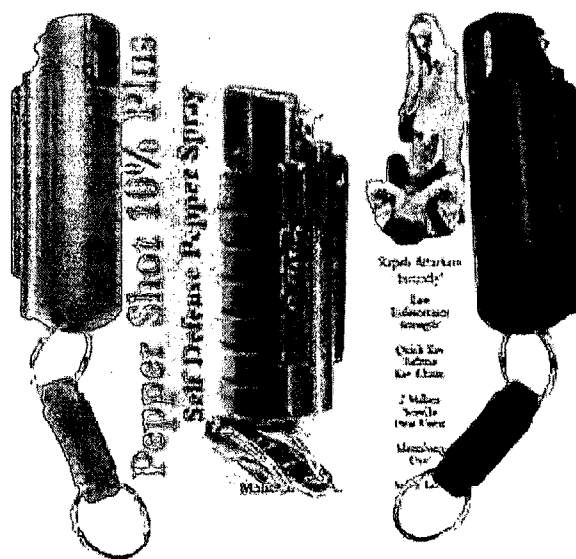


\$9.95 each

Color: Black

Order PS-1

1/2 ounce with Injection Molded Holster, locking actuator and Quick Key release keychain. Effective up to 8 feet. Contains 5 one second bursts.



\$9.50 each

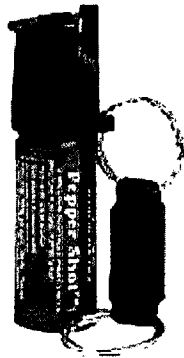
Color: Black

Order PS-1A

1/2 ounce (15 grams) pepper spray with Quick Key Release keychain and locking actuator. Effective up to 8 feet. Contains 5 one second

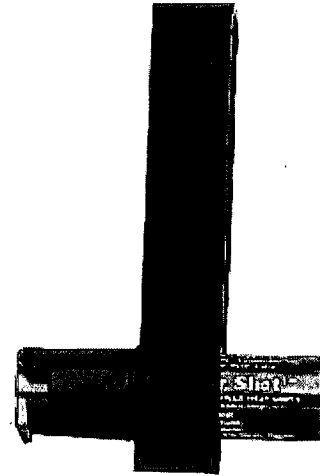
This is one of our most popular pepper sprays. fits on the visor of your vehicle, giving you pepper protection where you need it the most.

bursts.



\$8.95 each

Order PS-2



\$8.95 each

Order PS-4

2 ounce pepper sprays, 4 ounce pepper sprays, Pepper Pens, Pepper Pager, Tri-Pack

View Shopping Cart

the Pepper Spray store

The best Pepper Spray for ...

- » [in your purse](#)
- » [for your car](#)
- » [carrying in a pocket](#)
- » [while jogging](#)
- » [while on a date](#)
- » [protection against bears](#)
- » [against vicious animals](#)
- » [hiking and camping](#)
- » [in the bedroom](#)
- » [in your office/workplace](#)

Information

- :: [What is pepper spray?](#)
- :: [Pepper spray and bears](#)
- :: [Pepper spray antidote](#)
- :: [Pepper spray training](#)
- :: [Pepper spray laws](#)
- :: [Crime prevention tips](#)
- :: [Mace vs. pepper spray](#)
- :: [States restrictions](#)
- :: [Other related questions](#)

Request your free catalog now!

Use [request catalog link below](#)



Request your free catalog now and get more special offers not included on the web site!

email:

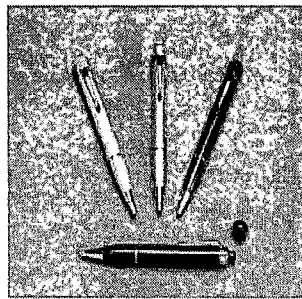
first name:

lastname:

address:

city:

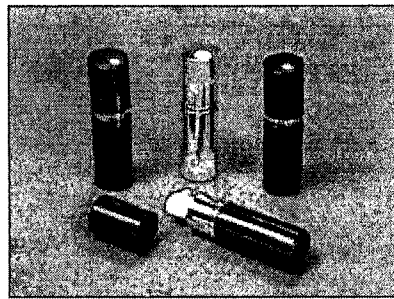
You are here: [Pepper Spray Store](#)



Pepper Pens

You can use it to give out your phone number and you can use it to make them give it back.

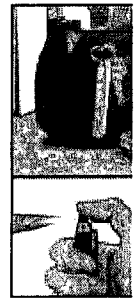
Buy this item.
Now just \$24.95!
[more information](#)



Kiss-Off

This stunningly attractive lipstick case is sure to deceive. Inside is a powerful pepper sprayer.

Buy this item.
Now just \$12.95!
[more information](#)

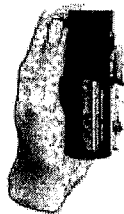


Advantage Key

This cleverly designed defense product you while jogging or any

Buy this
Now just
[more info](#)

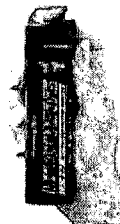
Pepper Spray Categories



[Pepper Spray Police/Home Units](#)



[Pepper Spray Jogging Weights](#)



[Pepper Spray Fogger](#)



[Pepper Keychain](#)



[Pepper Spray Pagers](#)



[Pepper Spray Holsters](#)



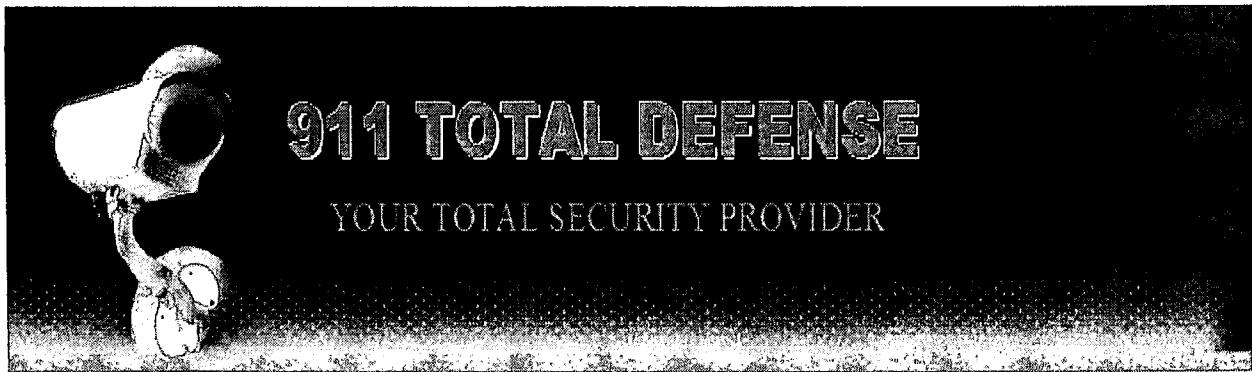
[Pepper Spray Pens](#)



[High Capacity Canister](#)

Why use pepper spray?

- It stops your attacker ... it hurts them ... it will slam their eyes shut for 10 minutes so you safely get away. Hours later, you're safe, and they are left miserable and (although unharmed).
- You have a right to protect and defend yourself. Pepper spray is simple to use, inexpensive, environmentally friendly and your best non-lethal defense.



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- [Talon™](#)
- [MINI](#)
- [Stun Master™](#)
- [Stun Batons](#)
- [Z-Force™](#)
- [2 in 1 Stun Flashlight](#)
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- [Sling Shots](#)
- [Crossbows](#)
- [Steel Batons](#)
- [Handcuffs](#)
- [AirSoft BB Guns](#)
- [Paintball Guns](#)

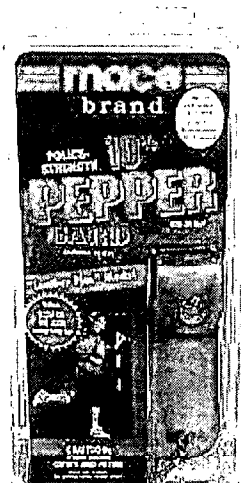
Mace Pepper Spray

Sorry, no pepper spray orders to New York or out of the US.

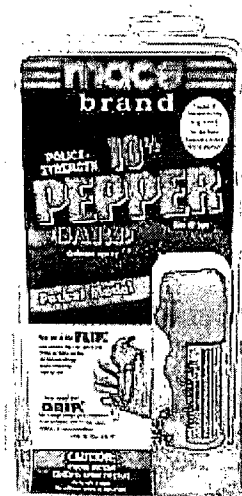
Shipping is FREE (Continental USA orders only) if you order a minimum of **\$50.00** from our web site. Otherwise we will add **\$6.00** shipping.

Mace 10% PepperGard, **Leather Plus Pepper Spray** Attractive model fits easily in pocket or purse. Features glow-in-the-dark locking safety cap and keychain. 15 gram unit sprays up to 10 feet. Contains 5 one second bursts. 80184

Mace 10% PepperGard, **Pocket Model Pepper Spray** easy aim feature makes this model ideal for emergency use. Compact design and finger grip dispenser fit comfortably in woman's hand. 15 gram unit sprays 6-12 feet. Contains 5 one second bursts. 80171



\$12.95 each



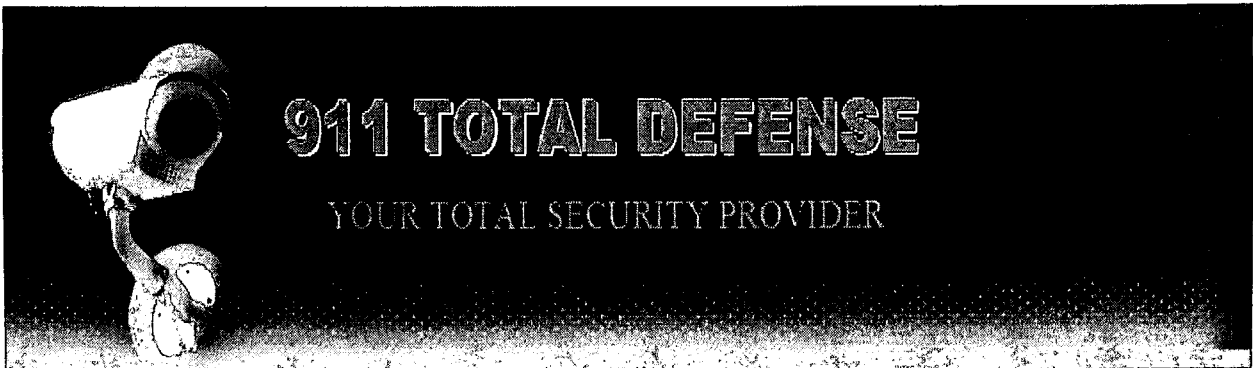
\$14.95 each

Self Defense Spray

- [Mace™ Pepper Spray](#)
- [Pepper Foam Triple Action Spray](#)
- [Hot Walkers Key Chain Pepper Batons](#)
- [Michigan Approved](#)

- [Pepper Spray](#)
- [Pepper Shot™](#)
- [Pepper Pager](#)
- [Wildfire Spray](#)
- [Pepper Pens](#)
- [Stunning Ring](#)
- [Pepper Spray In](#)

- [Animal Repeller](#)
- [Canine Repellent](#)



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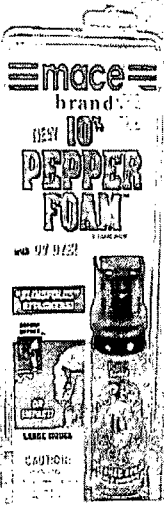
- Self Defense Weapons**
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- [2 in 1 Stun](#)
- [Flashlight](#)
- [Cell Phone](#)
- [Stun Gun](#)
- Tasers**
- [Air](#)
- [Tasers](#)
- [Advanced](#)
- [Tasers](#)
- Martial Arts & Others**
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- [Stars](#)
- [Kubotans](#)
- [Blowguns](#)
- [Sling](#)
- [Shots](#)
- [Crossbows](#)
- [Steel](#)
- [Batons](#)
- [Handcuffs](#)
- [AirSoft BB](#)
- [Guns](#)
- [Paintball](#)
- [Guns](#)

Mace Pepper Foam

Mace™ 10% Pepper Foam covers an assailant's face, making it difficult to see. When the attacker attempts to wipe away the foam the pepper is ground into the face and eyes.

Sorry, no pepper spray orders to New York or out of the US.


Shipping is **FREE** (Continental USA orders only) if you order a minimum of **\$50.00** from our web site. Otherwise we will add **\$6.00** shipping.



Convenient size for carrying. This pepper foam is compact, powerful model features flip-top safety cap. 67 gram unit sprays 6-10 feet. Contains 5, one second bursts.

\$19.95 each

Order Large Foam



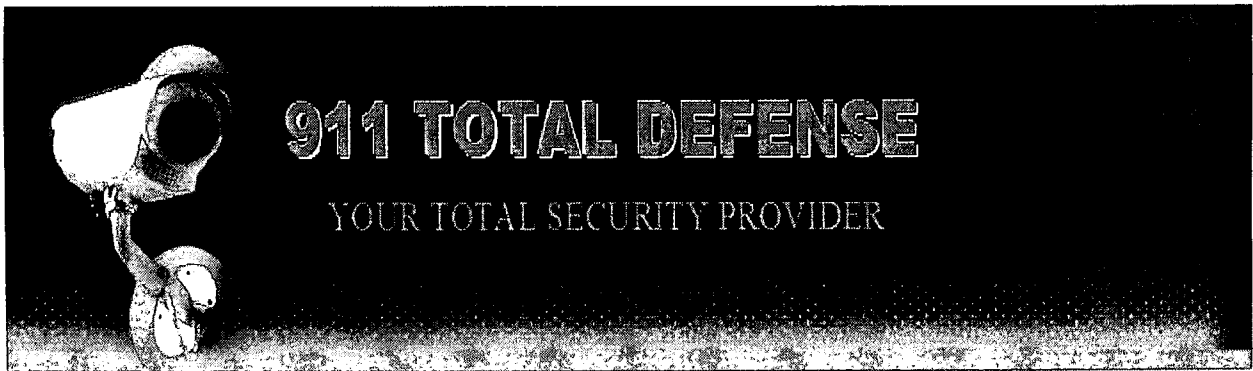
The ultimate in home or auto protection. High powered pepper foam model features flip-top safety cap. 113 gram unit sprays 6-10 feet.

Contains 10, one second bursts.

\$22.95 each

Magnum Foam

- Self Defense Spray**
- [Mace™](#)
- [Pepper](#)
- [Spray](#)
- [Pepper](#)
- [Foam](#)
- [Triple](#)
- [Action](#)
- [Spray](#)
- [Hot](#)
- [Walkers](#)
- [Key Cha](#)
- [Pepper](#)
- [Batons](#)
- [Michigan](#)
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- Pepper**
- Spray**
- [Pepper](#)
- [Shot™](#)
- [Pepper](#)
- [Pager](#)
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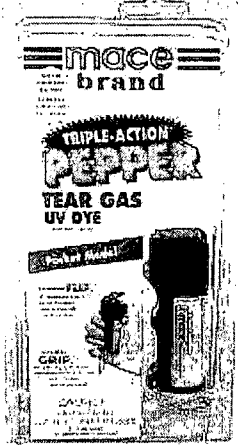
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Mace Triple Action Sprays

Triple Action Mace™ sprays combines OC PEPPER with CN TEAR GAS along with a UV MARKING DYE. OC PEPPER causes eyes to slam shut and uncontrollable coughing and choking. CN TEAR GAS causes profuse tearing, an intense burning sensation to the face and disorientation. UV DYE marks the assailant and may aid in identification once apprehended. Mace is a well trusted brand name for many years for your personal self defense.

Shipping is FREE (Continental USA orders only) if you order a minimum of **\$50.00** from our web site. Otherwise we will add **\$6.00** shipping.

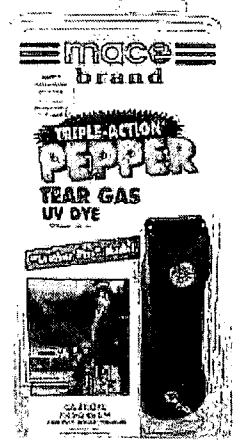
Compact design fits comfortably in woman's hand. Finger-grip dispenser correctly orients the unit even in the dark.



Features flip-top safety cap. 11 gram unit sprays 6-12 feet. Contains 5 one second bursts.

\$15.95 each

Fashionable leather style pouch conveniently fits into pocket or purse.



Features flip-top safety cap. 11 gram unit sprays up to 10 feet. Contains 5 one second bursts.

\$13.95 each

Self Defense Spray

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- [Pepper Foam](#)
- [Triple Action Spray](#)
- [Hot Walkers](#)
- [Key Chain](#)
- [Pepper Batons](#)
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Air Pressure Alarms

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Nap Zappers
Mobile Alarms

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Dummy Cams
Barking Dog Sound

Diversion Safes
Beer & Soda Safes
Flower Pot Safes
Wall Socket Safes
Book Safes
Can Safes
Stone Safes
Salt Shaker Safes
Other Safes

Child Security
Child Monitor
Baby Safety Kit

Triple Action Pocket

Same size model used by law enforcement personnel. Velcro-like attachment allows for convenient storage.



Features flip-top safety cap. 18 gram unit sprays 6-12 feet. Contains 10 one second bursts.

\$19.95 each

Triple Action Police

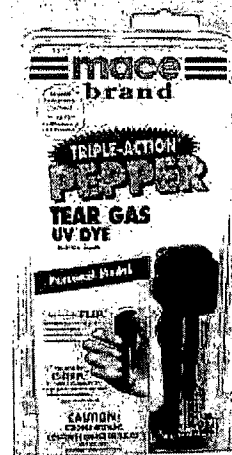
Designed for use in home or automobile.



Features flip-top safety cap. Full cone fogger. 60 gram unit, sprays up to 8 feet. Contains 18 one second bursts.

Triple Action Leather Plus

Belt clip makes this unit ideal to use while walking or running.

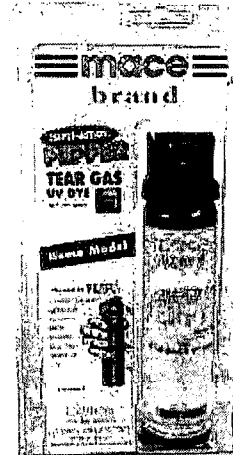


Features flip-top safety cap. 17 gram unit sprays 8-12 feet. Contains 10 one second bursts.

\$17.95 each

Triple Action Personal

High powered model is ideal for home, dormitories and RV's. Our largest unit.



Features flip-top safety cap. Full cone fogger. 120 gram unit, sprays up to 8 feet. Contains 38 one second bursts.

E-Dog Repellent
Bear Spr.

Person Self Defense

Knives
Butterfly Knives
Folding Knives
Pen Kniv.

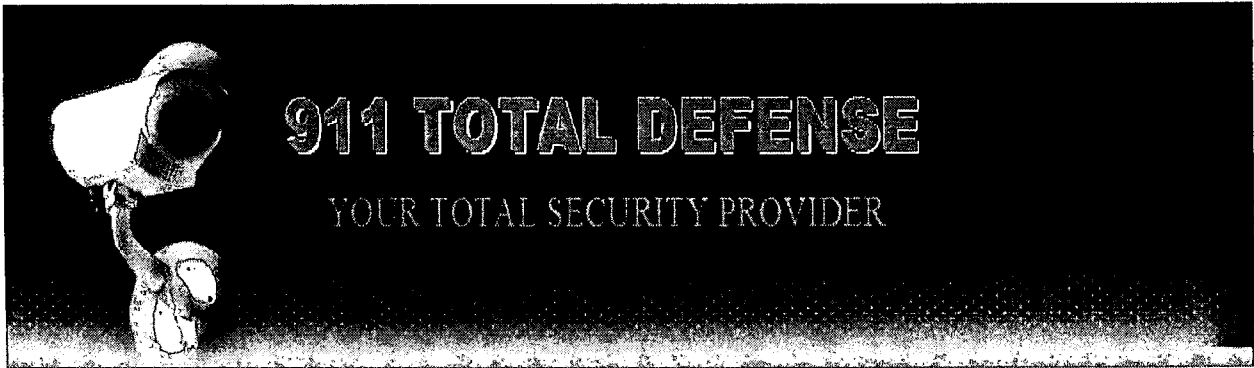
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Gamma Rays
Blinkers
LED Light

Others
The Hear Attack
Spy Glasses
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Phone Recorder

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Weapon Scanner
Pro-Scan
Garrett Scanner

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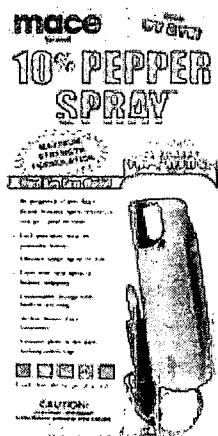
Mace Hard Case Pepper Spray

Mace™ Pepper Spray - Attractive **Hard Case Model** key chains fit easily in pocket or purse. Features glow-in-the-dark locking safety cap and key ring. 11 gram stream unit sprays up to 10 feet. Contains 5 one second bursts. Available in five fashionable colors. Includes key ring.

Sorry, no Pepper Spray orders to New York or out of the USA.

Shipping is **FREE** (Continental USA orders only) if you order a minimum of **\$50.00** from our web site. Otherwise we will add **\$6.00** shipping.

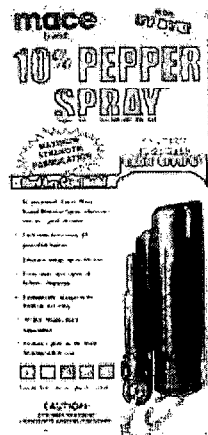
Red



80390

\$14.95 each

Black



80391

\$14.95 each

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- S**
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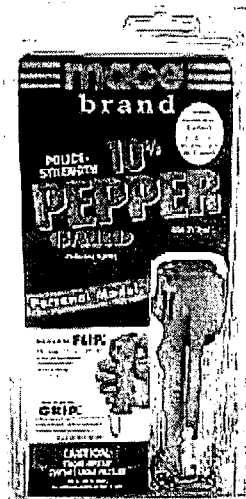
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[PepperGard Leather Plus](#)

[Order PepperGard Pocket](#)

Mace 10% PepperGard Personal Pepper Spray Ideal for outdoor activities including walking or running. Belt clip holds unit in place for quick access. Velcro-like attachment fastens unit onto bike or in car. Features flip-top safety cap, finger grip dispenser and keychain. 17 gram unit sprays 8-12 feet. Contains 10 one second bursts. 80153

Mace 10% PepperGard Police Model Pepper Spray Same size model used by law enforcement personnel. Ideal for auto or home use. Velcro-like attachment included. Features flip-top safety cap, finger grip dispenser, belt clip and keychain. 17 gram unit sprays 8-12 feet. Contains 10 one second bursts. 80170



\$16.95 each

[PepperGard Personal](#)



\$19.95 each

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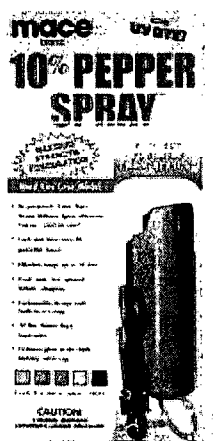
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- Diversion Safes**
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- Book Safes
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- Other Safes
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Order Red Hard Case

Blue

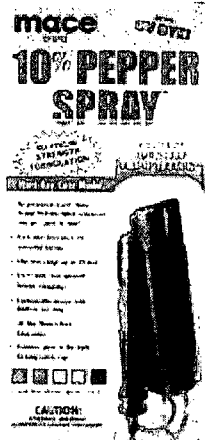


80392

\$14.95 each

Order Blue Hard Case

Green



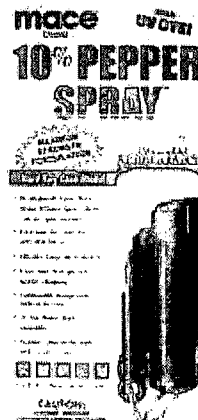
80394

\$14.95 each

Order Green Hard Case

Order Black Hard Case

Purple



80393

\$14.95 each

Order Purple Hard Case

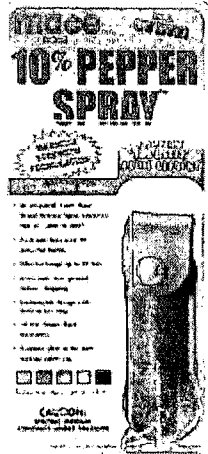
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Mace Leatherette

Pepper Spray

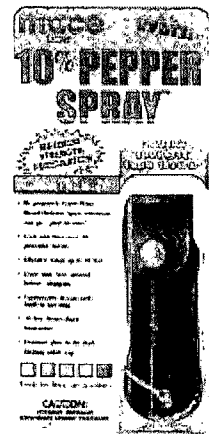
Mace™ Pepper Spray - Attractive Leatherette Model fits easily in pocket or purse. Features glow-in-the-dark locking safety cap and keyring. 11 gram stream unit sprays up to 10 feet. Contains 5 one second bursts. Available in five fashionable colors. Includes key ring.

Sorry, no Pepper Spray orders to New York or out of the USA.



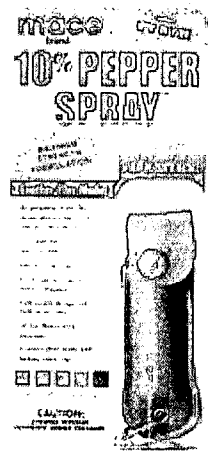
80380
\$12.95 each

Order Red Leatherette



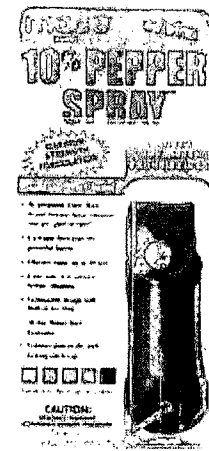
80381
\$12.95 each

Order Black Leatherette



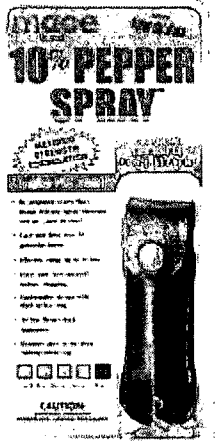
80382
\$12.95 each

Order Blue Leatherette



80383
\$12.95 each

Order Purple Leatherette



80384
\$12.95 each

[Order Green Leatherette](#)

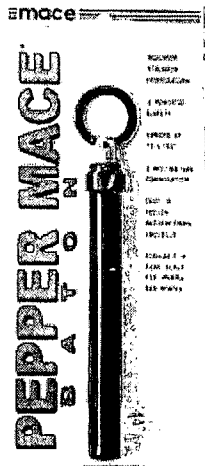
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Order Pewter Mace Baton

Black

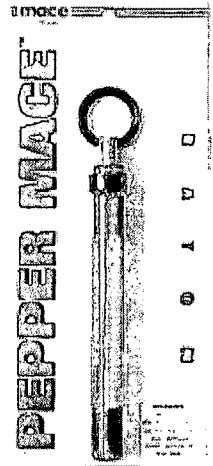


80337

\$29.95 each

Order Red Mace Baton

Blue

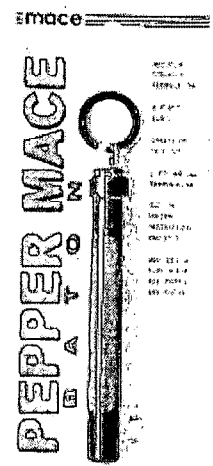


80338

\$29.95 each

Order Black Mace Baton

Purple

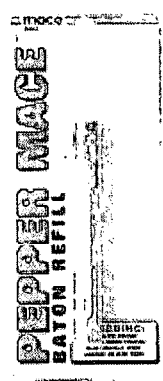


80339

\$29.95 each

Order Blue Mace Baton

Refill



80361

\$7.95 each

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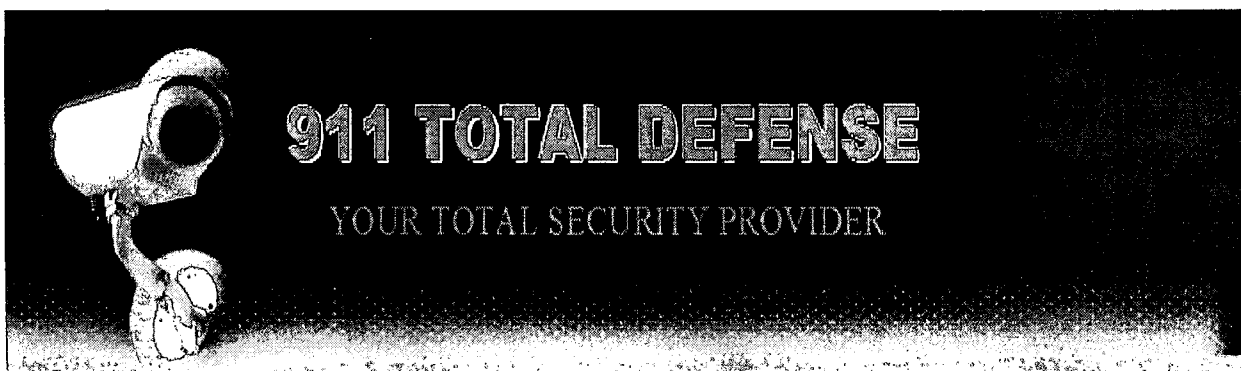
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Pepper Pager

Pepper Shot™ is a 10% pepper spray rated at 2 million scoville heat units and made with a very fine grain that is more effective than the coarser grains of most other pepper sprays. In addition to causing an attacker pain, Pepper Shot swells the mucous membranes, which makes breathing difficult, and swells the veins in the eyes, causing the eyes to close. These effects last 20-30 minutes and cause no permanent damage.

Sorry, no pepper spray orders to New York or out of the US.

Shipping is **FREE** (Continental USA orders only) if you order a minimum of **\$50.00** from our web site. Otherwise we will add **\$6.00** shipping.

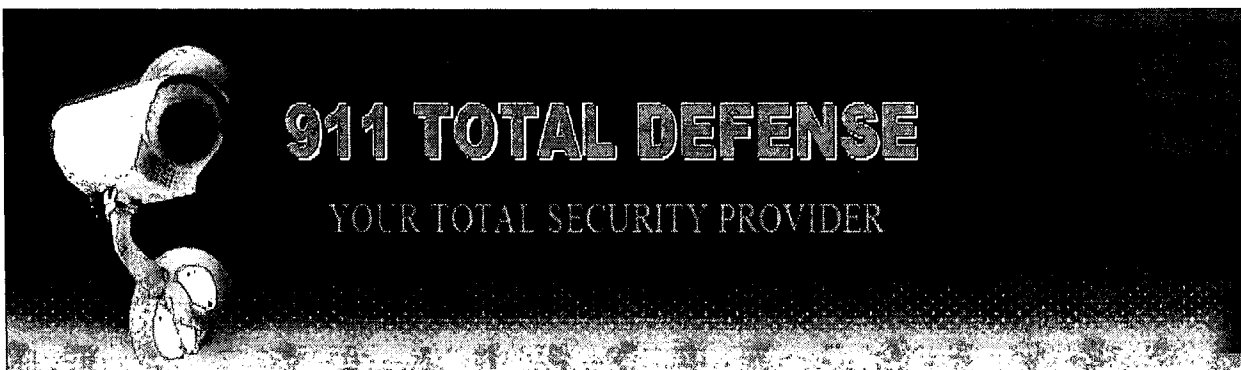



oz. canisters. Both canisters fire at once releasing twice the amount of pepper as a standard 1/2 oz. It has an effective range of 8-12 feet and contains 10-12 one second bursts. Unique design makes it look like an ordinary pager...giving you a distinct tactical advantage. PP-10

\$15.95 each

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Wildfire 15% Pepper Spray

Wildfire™ 15% pepper spray is hot, hot, hot...15% pepper spray and 2 million scoville heat units. Wildfire comes in two sizes: 1/2 ounce and 1.5 ounce. Both units come with an injection molded poly holster, belt clip, keychain and safety switch.

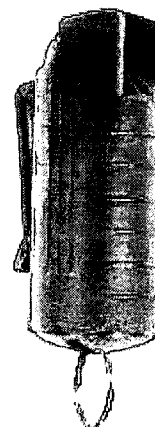
Shipping is FREE (Continental USA orders only) if you order a minimum of **\$50.00** from our web site. Otherwise we will add **\$6.00** shipping.



\$10.00 each

Color: Black WF-15SM

Order 1/2 oz Wildfire 15%



Available in Black only. WF-15LG

\$12.95 each

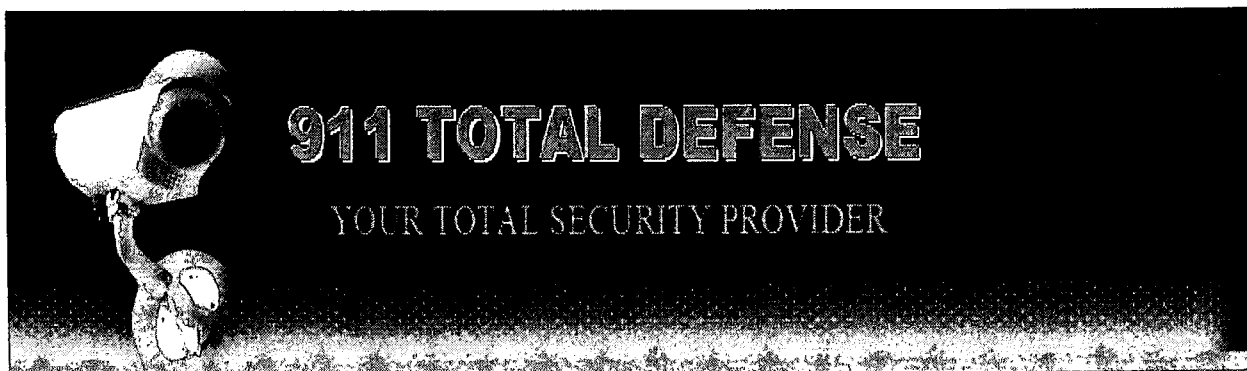
Order 1.5 oz Wildfire 15%

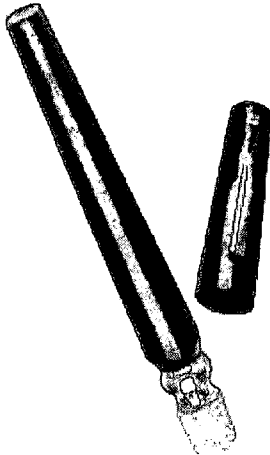
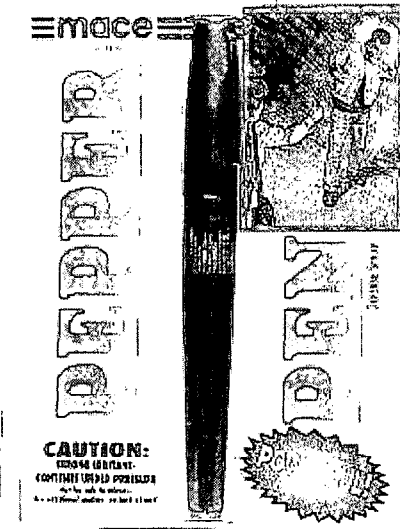
Self Defense Spray

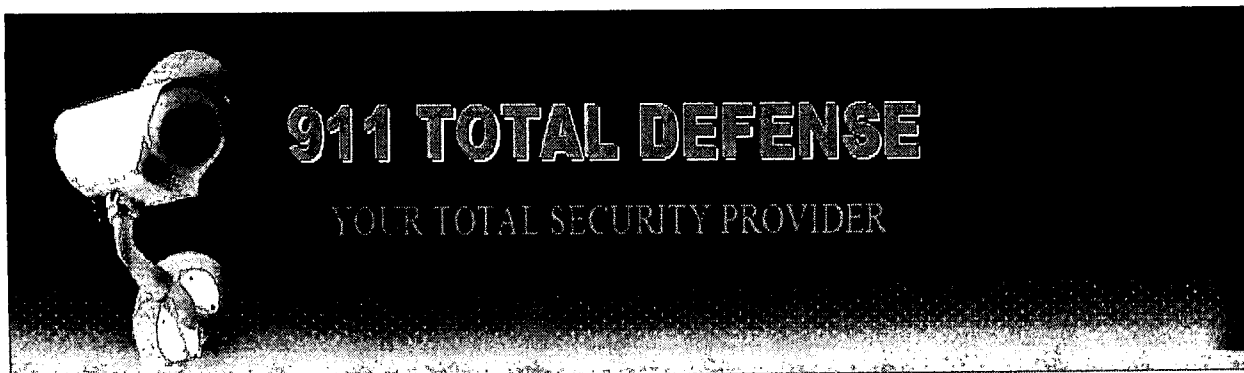
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Stun Master Stun Guns

Stunning Ring

THE STUNNING RING, a beautiful self-defense ring with pepper spray, offers safety, elegance and confidence close at hand. THE STUNNING RING, elegantly crafted in silver and gold plating with a genuine black onyx stone, is the perfect self-defense ring for women or men. THE STUNNING RING self-defense ring with replaceable pepper spray canisters empowers a woman or man while jogging, dating, working or anywhere against attack, rape, violence or crisis. This ring can always be worn and makes the perfect gift for someone you love.

Shipping is FREE (Continental USA orders only) if you order a minimum of **\$50.00** from our web site. Otherwise we will add **\$6.00** shipping.

THE STUNNING RING™ ring uses the strongest pepper spray formula available on the market today. The formula has the industry's highest heat rating of 2 million SHU (compared to a jalapeno pepper, which is 5000 SHU), which severely affects the mucous membranes (eyes and respiratory systems). The ring has 2-3 one second burst and has an effective range of 12 inches.

THE STUNNING RING™ formula can be used to deter assailants causing no permanent injury. Pepper spray canisters are **REPLACEABLE**.

"It is with great pleasure and an honor to offer my endorsement for the Stunning Ring. I have evaluated the ring and found it to be a tool that should be a part of everyone's self defense arsenal. The fact that it is worn like a ring makes it readily accessible and convenient. Unlike the key chain or pocket pepper sprays, the ring will be there when you need it. And because it looks like a piece of fine jewelry, a potential attacker would not even suspect that they were about to receive an effective shot of OC pepper spray. As a former police officer with over 20 years experience, I now teach Personal Protection at my school, Self Defense America in Seaside, CA. I can honestly recommend The Ring to any adult that is interested in adding

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Home Defense

- House Alarms**
- Wireless Protection
- Driveway Alarms
- Air Pressure Alarms

Personal Alarms

- Nap Zappers
- Mobile Alarms

Home Protection

- Surveillance Cams
- Dummy Cams
- Barking Dog Sound

Diversion Safes

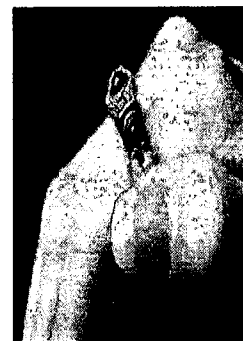
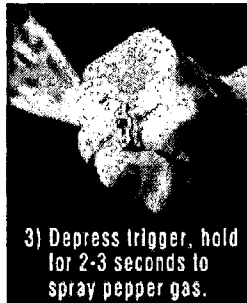
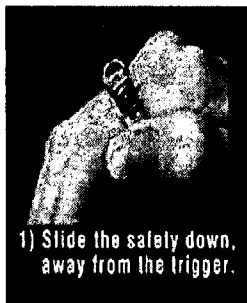
- Beer & Soda Safes
- Flower Pot Safes
- Wall Socket Safes
- Book Safes
- Can Safes
- Stone Safes
- Salt Shaker Safes
- Other Safes

Child Security

- Child Monitor
- Baby Safety Kit

some additional protection to their self defense tool bag. My students love it and it won't be long before they will all be wearing The Stunning Ring."

Bob Ingersoll
CA State Director / VP International Combat Hapkido Federation
West Coast Director / International Police Defensive Tactics Institute



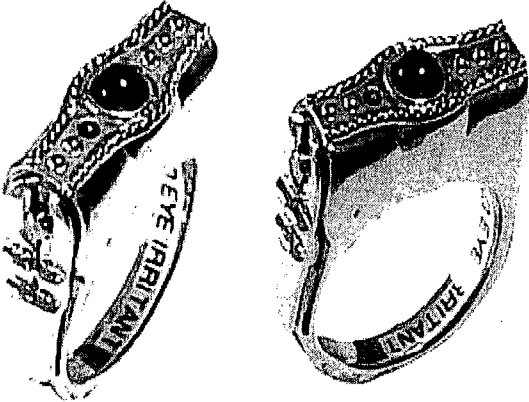
THE STUNNING RING™ ring is designed to be worn on either hand on the 1st (index) or 2nd finger preferably your dominant hand, with the thumb (or other hand if necessary) accessible to operate the safety latch and depress the trigger.

EFFECTS: In most cases, the attacker will lose control of his faculties immediately. The spray causes inflammation of the eye capillaries and all other mucous membranes, resulting in immediate temporary visual impairment, difficult breathing, coughing, choking, sneezing, severe burning sensations to the eyes, nose, throat and skin, and nausea, with acute symptoms and discomfort lasting for 45 minutes. There is no permanent damage.

1. **To determine size:** Wrap a piece of string or paper strip around the base of your index finger.
2. Mark the string or paper where it overlaps to form a complete circle.
3. Measure the length of the section of string or paper where it overlaps around the finger.
4. Compare your measurement with the chart below to determine your ring size.

Ring Size	Measured Size
6	2 1/16"
7	2 3/16"
8	2 5/16"
9	2 7/16"
10	2 9/16"
11	2 11/16"
12	2 13/16"

13	2 15/16"
----	----------



\$35.95 each

Color: Gold

Size (Index finger):
6

Add Refill \$7.95

Order Stunning Ring

"The Stunning" ring is a great companion for anyone looking for a personal protection device that is readily available without effort! No hassles, No fumbling in a purse or pockets. Just take the safety off and spray. As a martial artist and a personal protection Instructor I understand that most assaults happen in the close quarter range and that is where "The Stunning" will give you the time you need to either escape or defend yourself! I use it and more importantly my wife uses it! I highly recommend "The Stunning" for anyone interested in having that extra edge for personal protection and personal security! **George Bell**
30 Yrs. Martial Arts Experience
7th Degree Black Belt, Modern Moo Sa Do
6th Degree Black Belt, Taekwondo
Director of Training, Combative T.K.D. (Tactical Knowledge Defense)
Owner of The Martial Way Training Center and, Ultimate Taekwondo, Mesa, Arizona

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Your purse is the ideal hideout for the ultimate person



Do you ever go anywhere without handbag?

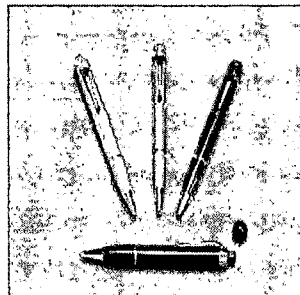
Of course not. Whether you are on school, to work, shopping, or just to family, you grab your purse on the door. Then when you get out of your purse, it's always with you.

Why is this important?

Besides protection from a random v that you may encounter, there is the protection against sexual predators. there is a rape every six minutes. O women are battered every year. Mo be the victims of at least one violent their lifetime. With pepper spray har happen to you. Just the threat of a t spray in the face will send any attac

Perhaps you think sexual assault he certain high-risk situations such as t walking alone at night. About one-th occur in or near the victim's residen half of rapes are by first or casual d

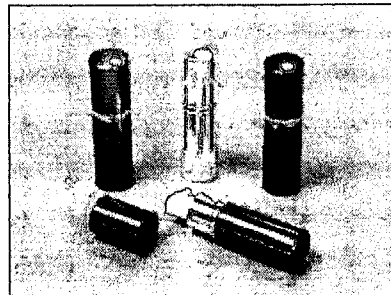
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Pepper Pens

You can use it to give out your phone number and you can use it to make them give it back.

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Kiss-Off

This stunningly attractive lipstick case is sure to deceive. Inside is a powerful pepper sprayer.

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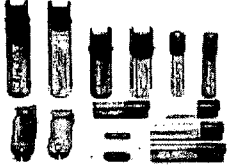


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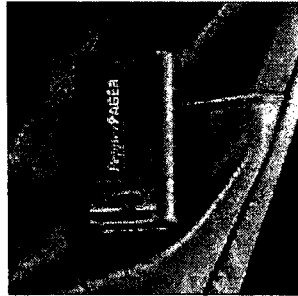
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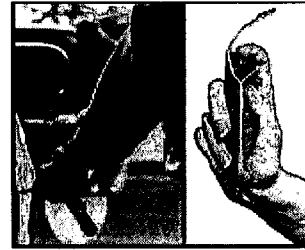
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Wish you could get help by paging someone instantly? This pager gives the help you need when you need it.

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Keychain Pepper Spray

Facts indicate 70% of victims have their keys in their hands at the time of assaults. Change your outcome.

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ward

Vicious Dog Attacks, 109 bite-related deaths in the pa



Bite injuries can lead to serious infections (tetanus and rabies), disability, and c

There are many other animals besides dogs that can be vicious, dangerous, and kill

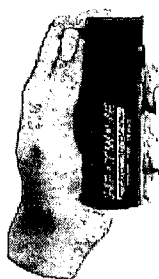
Common animals such as squirrels, rabbits can be quite vicious when in rabies.

The time between bite wound and rabies is variable and often prolonged. After the virus travels up the nearby nerves to the spinal cord, then the brain.

The paralytic stage of rabies, accompanied by drooling and a dropped jaw, will make it difficult for humans and nocturnal animals to appear in daylight.

The series of shots for rabies treatment is painful, so the best recommendation is to get close enough to bite a vicious animal to be pepper spray ready.

Small Products That Pack A Punch



2 oz Police/Home Unit
This 2 oz size is an ideal companion, providing extra protection for the home or just going out and about.

Buy this item. \$15.16
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3 oz Heavy Duty Fogger
Eliminates the need for pinpoint accuracy and providing extra heavy-duty protection.

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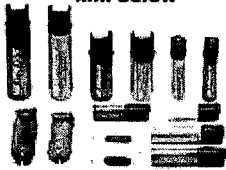


Molded Key Chain
The 1/2 oz Molded Key Chain Sprayer consists of a pepper spray canister in a convenient keychain holder.

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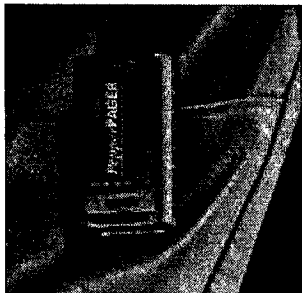
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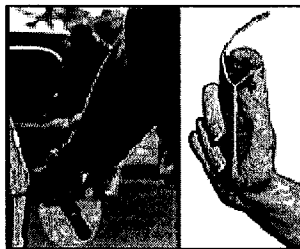
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Pepper Spray, Tear Gas, Mace and The Law

Some states regulate or forbid tear gas, or some may allow cities to make their own regarding tear gas. Many countries, including Canada, also forbid tear gas. For this is a good idea to call the law enforcement agency that has jurisdiction over your destination to bring tear gas somewhere to find out about its tear gas laws. Misuse of tear gas in California with state penalties of up to a \$1000 fine and/or up to three years in prison, not to mention a possible felony conviction on record. Examples of misuse include using tear gas on people, spraying it as a joke, or possession of tear gas by prohibited persons. Minors, drug addicts, persons convicted of felonies, assault or misuse of tear gas are legally prohibited from purchasing, possessing or using in California, any canister must have a label that says "The use of this substance or device for any purpose other than self-defense is a crime under the law. The contents are dangerous--use with care." The maximum legal net weight for a canister is 1.5 ounces, or 70 grams of OC, CS or CN. CR is not legal for civilian use. There are four chemicals used as tear gasses. The first two are CS and CN, short for orthochlorobenzalmalononitrile and chloroacetophenone, respectively. They are the most common by far. A third, code named CR (dibenz(b,f)-1,4-oxazepin), has not come into civilian use. At standard temperature and pressure, these are actually white crystals with fairly low vapor pressure, not gasses, and they're not very soluble in water. In order to disperse them, they are dissolved in a liquid carrier and aerosolized. You have probably heard of Mace, which is one of many brands of tear gas and is a well recognized trade name by both civilian and law enforcement. The fourth is pepper spray, which is the oleoresin capsicum extracted from chili peppers. It is a chemical that gives them their hot quality. OC is a reddish-orange, oily liquid, insoluble in water. The agent is also dispersed by aerosol. Tear gas has been credited with saving lives when used in situations faced with barricade situations and combative suspects. Its use is a standard tactic which facilitates an arrest without the need for lethal force. It has also been used by the military amid international controversy. Many considered its use in warfare to be a violation of the Geneva Protocols. One infamous use of tear gas occurred at Kent State University in Ohio in 1970. The National Guard troops shooting students, killing four, was at the heart of the tragedy, and the deployment on campus is well remembered. Pepper spray is generally regarded to be less distressing to experience, but it must be sprayed in the eyes or inhaled directly to be effective. OC, CS and CN, on the other hand, vaporize to some extent despite their low vapor pressures and have some effect on a person who is hit less accurately due to the vapors being inhaled or absorbed in the eyes. CS and CN may have some effect on a person sprayed in the groin area. Because of the different advantages of each, some formulations are being manufactured which contain a mixture of OC and either CS or CN. Also, despite the absence of vapors from oleoresin capsicum particles can remain airborne for a long time, especially indoors. Their concentrations are high enough to irritate many people who were not even sprayed directly. One type of OC product attempts to eliminate aerosolized pepper spray entirely by propelling the agent in a thin stream.

While Pepper Spray is legal for use against bears in most states, the use of mace and tear gas is not.

The effects of exposure to tear gas can include tearing and involuntary closure of the eyes, severe burning sensations on the nerve endings of the skin. Coughing, inflammation, redness, secretion, headache, dizziness, a tight feeling in the chest or excessive salivation may occur. Pepper spray can cause a significant enough inflammatory response in the eyes to severely irritate and degrade the vision of even a PCP-intoxicated person who can't feel pain. If you are using tear gas defensively, target the face. A person properly sprayed with tear gas may experience a stinging sensation especially if you achieve an element of surprise. Pepper spray's effects may last up to 15-30 minutes after the agent has been completely irrigated from skin surfaces, with some minor irritation up to a few hours after exposure. CS, CN and CR, on the other hand irritate when the sufficient concentration in contact with the skin and the 15-30 minutes of residual irritation is rapidly washed away. CS is hydrolyzed in water, especially in basic solution; at pH 9, its half-life is about 15 minutes. Your tear gas should come with a package insert that includes first aid instructions. If you accidentally spray yourself with tear gas, you will probably not be able to find these instructions alone read them--so read them before you need them. If you become exposed to any of the tear gasses, copious amounts of cool water should begin to provide relief and rinse away the gas contamination. Warm water may intensify the burning and inflammation, though. Rinsing with cold water and washing twice with soap is recommended. Try not to rub! Don't use a soap that contains oil.

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oils, and don't apply oily lotions--they will carry tear gas particles deeper into your skin and cause more discomfort. Remove any contact lenses if you get tear gas into your eyes--but not those that have additional tear gas contamination. Don't touch your face before washing your face after contacting tear gas. Remove any contaminated clothing, as you may recontaminate yourself with them, and CN or CS-soaked clothing will continue to give off noxious vapors. Pain may be relieved by taking an over-the-counter anti-inflammatory drug, like ibuprofen. In addition, an oral antihistamine may alleviate some of the effects of pepper spray. Unfortunately, the time it takes for your body to deliver the drug in a pill to the sites of irritation make them of little use unless you are already wearing off. They will be most effective if taken before exposure, like the same as some chemical warfare agents, making them rarely useful. Infants are very sensitive to tear gas and should be taken to a doctor immediately if exposed to it. Tear gas as a weapon of self-defense is an excellent distraction, allowing the victim time to get away. However, unlike a fire extinguisher, it has little "stopping power," little ability to actually stop an attacker from causing you injury. It does not paralyze. A person sprayed with it may still grab you, hit you, stab you or shoot you. Tear gas may not affect the insane, addicts, intoxicated or hysterical persons.

A person threatening you with a lethal weapon can injure you mortally in less time than it takes to draw and aim a tear gas weapon. An assailant may be able to take your canister and use it against you. If this is happening, try to throw the spray away out of reach. It could backfire at you in wind. Both wind and rain may reduce its range and effectiveness. OC and CR tear gasses are usually not very effective against animals. In fact, law enforcement uses horses and dogs in areas they have deployed tear gas. OC has been proven effective against animals, and has been available to the California public in an aerosol form for this purpose before its use against humans became legalized. Most canisters sold for self-defense are for humans, however, are marked "Not tested on animals." If you are attacked, use plenty of pepper spray on the assailant's face and run away immediately. Tell law enforcement about the incident. Remember a description of the assailant and the location of the incident and tell them to law enforcement in order to make an arrest possible. The best safety measure is to avoid confrontation whenever possible. Have a security plan: Make a habit of walking with others and in well-lit areas with good lighting, in public view whenever possible. Avoid areas known to be dangerous where you would not go without. Although the Materials Safety Data Sheet does not list any known specific lethal dose or lethal concentration, pepper spray has caused the deaths of some people who were sprayed with it. These people suffered anaphylactic allergic reaction that can be life threatening. Symptoms can include airways obstruction, fainting, and shock. Asthmatics are at higher risk of having an adverse reaction to pepper spray. Another bizarre risk factor that was recently reported is a history of violent behavior at confrontations with law enforcement; this statistic may be an artifact of these people's high probability of exposure in the first place, or having a higher probability to multiple exposures might cause allergic sensitization in some individuals. For the reason of additional risk, such people who wish to carry tear gas for self defense but worry about possible wind-blown spray may wish to consider a formulation which does not contain oleoresin capsicum, or at least a low type pepper spray which reduces the risk from airborne particles of the OC agent. This reaction, however, is not going to be reduced for the user of a foam in a situation where the user takes the weapon away and uses it against the victim. Also, the possibility of this reaction emphasizes the importance of using pepper spray only in defense of people, not property, and adds potential liability in these litigious times.

Canisters may have a shelf life of three to six years. They are usually conservatively designed to last for one year. Shake the canister about once a month to keep the ingredients mixed. Canisters contain the active ingredient mixed in a liquid, and a pressurized gas propellant. The inside of the canister is like a squirt bottle under pressure. An intake straw dips to the bottom of the canister into the liquid mixture. For this reason, the canister must remain fairly upright. If it's held upright while spraying, only the propellant may escape. If the canister is sprayed upside down, the active ingredient pressure and may not be able to spray when you need it, even though you may be able to feel the liquid sloshing around and you believe the can is full. Other canister failures include: The nozzle may become clogged with lint or dirt. The trigger may break off. If left in a hot car for a day, a canister may be exposed to temperatures over 140 degrees F. Even if the canister is not (which it might), this adverse condition may cause a leak or a loss of the pressure needed to operate the device. It could also shorten the life of the active ingredients. If you wish to test your canister's pressure, make your spray burst only a fraction of a second and don't do this often, as most canisters last as little as four seconds or less worth of spray in some models. The label or instruction manual should tell you how many seconds of spray it has. Although floating the device to determine the quantity of ingredients left has been recommended in the past, be aware

cause the label to fall off or dissolve, and the device will no longer comply with the law. Keep it away from children! You are responsible for the use of your canister.

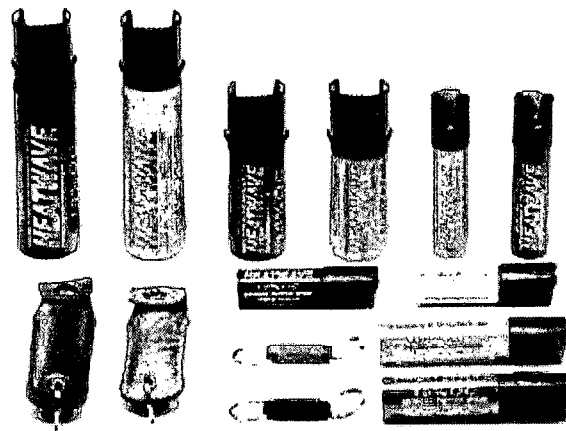
It is vital that you give some thought in advance to how you will carry your tear gas canister. A purse can be a poor location, as it is likely to end up at the bottom and you will have to dig for it in an emergency. A purse with an accessible, open pocket where the spray can't get lost is better than keeping it loose in the bag, but the first indication that you need your spray may be when an assailant is already tugging on your purse. Consider carrying the device in the same place as possible. That way, you won't have to think, "where is it today?" in the heat of the moment. Practice various carrying methods and practice drawing the weapon. Make sure you can draw it wherever you're keeping it. Good, accessible locations include inside a pants pocket, the models with a clip. If it's clipped onto the outside of a pocket or belt, it may be dislodged accidentally or grabbed by an attacker. At the very least, it may be noticed before you remove the element of surprise which adds to the effectiveness of tear gas. Most clips are on the left side of the canister, which leaves the majority of the canister concealed in the left pocket with the clip out. If you are comfortable drawing the weapon with your left hand, this is a good configuration. If this type of canister were kept in the right pocket, it would be more visible when it is pulled out. Another good location may be a loose outer pocket of a jacket. Clips are available for some models. Although these are visible, the canister may be less noticeable to an attacker in a holster than it would be bare. The importance of accessibility can not be overstressed. How much warning might you have in a typical assault? How long does it take to draw your weapon? Does the way you carry your canister allow you to draw it in time for an assault? Keep in mind that most canisters are effective up to about a ten foot range. Always have your tear gas with you whenever possible. Hopefully, you will never need it. But you are unlikely to know when until the very moment you need to grab for it. Always remember to assume all risk and liability for owning and using tear gas, including pepper spray. Even if used correctly, there is no guarantee that it will always be effective at hindering an attack, and there is always the possibility that it may be used against you instead. I hope this document helps with your better understanding of tear gas as a weapon for self defense. Please be careful and

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What is a SHU?: The Scoville Heat Unit is a rating system to determine the "hot" in OC pepper. Back in 1912, a pharmacologist named Wilbur Scoville came up with the standard for measuring the power of capsaicin. Scoville measured the ground pepper into a mixture of sugar, water and alcohol. Then, a panel of five tasters sipped the mixture and gave it a grade; it took a majority of three to assign a value. The pepper scale ranges from zero Scoville unit for a bell pepper to 5,000 or so for a jalapeno to a whopping 200,000 - 300,000 for a habanero! Pure capsaicin is 15,000,000. The oleoresin capsicum use formulas are derived from the hottest peppers and further processed refined until the heat rating is 5,300,000 (5.3 million!).

Law Enforcement from Fox® surpasses all other OC pepper for effect with it's incredible 5.3 million rating on the SHU @ only a 2% solut 2% solution is extremely important in that developing a spray for k

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enforcement, Fox wanted a spray that would be near paralyzing in it's but would allow for a minimum recovery time. Where a 15% solution usually allow 1-1/2 to 2 hours for full recovery, a 2% solution will enable individual to recover fully after only 15-30 minutes. As a side benefit, thinner solution allowed for better and much faster penetration of the and mucus membranes. On one of our own field tests, one of our em shot the spray up into the air, held their breath and closed their eyes the blast to blow right through and past their head area. Within 1 sec we're fully immobilized and could not see for clearly not open their ey minutes. At the 20 minute mark, they were fine. Incredible!!

LAW ENFORCEMENT TESTIMONY: "We had a paranoid schizophrenic large male off his medic in a hair salon full of people. He was barricaded in a bathroom and screaming. One spray in the face and it was effective. We waited for about 2-3 seconds and I gave him commands to prone out and put his hands behind I did everything we asked. It was great! We made some more believers' in your product today. Thanks!" Lt. DN

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FOX INFO SHEET: Fox was founded in 1992 with the intent to sell only to the civi market. In 1993, after investing over \$250,000.00 in research, it was determined th enforcement agencies could benefit from new, improved formulas and products an primary marketing objective was revised. In 1994 they became the first company to law enforcement agencies to a 5% Oleoresin Capsicum (OC) less-lethal, non flammr aerosol defense spray in a true 2,000,000 Scoville Heat Unit (SHU) formula. In 199 introduced the Full Safety Holster. In 1995 they introduced another breakthrough p initially designed for law enforcement: Sudecon® Decontaminate Wipes. It has bec leader in aerosol defense spray aftercare because its' patented formula instantly st chemical agents (OC, CS & CN) from the skin and stops the burning of the eyes ar to 15 minutes or less! In July of 1997 the company added "International" to it's nar reflect its growing global presence. In just over three years Fox product sales had s throughout the United States into Canada, the United Kingdom, Germany, Mexico. America -- they have even been introduced into Russia. Everyone from sweet little

to the US Army had used Fox products; their reliability continued to be unrivaled in and the word-of-mouth continued to spread. In August of 1998 they succeeded and established a new standard by introducing **FIVE POINT THREE**, a **2% OC formula** a true **5.3 million SHU!** **FIVE POINT THREE** represents a major breakthrough for enforcement agencies because it affords all of the unbridled stopping power of high percentage formulas while reducing the recovery time and liability concerns associated with other aerosol defense sprays. In March 1999, Fox was selected by the US Army to provide products for the peacekeeping troops in central Europe. Fox served the needs of a major law enforcement organization in Bosnia and surrounding areas. The Canadian military used Fox products in 1995-96.

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Michigan-Approved Pepper Spray



Mace Pepper Spray



Mace Triple Action Spray



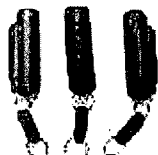
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All new 10% OC (Oleoresin Capsicum) formula @ 2 million Scoville Heat Units and asome, unbeatable Wildfire 2% (even faster acting) OC (Oleoresin Capsicum) formula. Strongest OC formula allowed by law. Non-toxic and non-flammable. Effects last for 20 to 90 minutes. Units can be fired many times and have a range of 8 to 20 feet, depending on model. OC is a derivative of HOT CAYENNE PEPPERS and is the newest defensive spray agent. It is not an irritant like the tear gases, but an inflammatory agent. Contact with mucous membranes (eyes, nose, throat and lungs) will cause IMMEDIATE dilation of the capillaries of the eyes, resulting in TEMPORARY BLINDNESS and instant inflammation of the breathing tube tissues, cutting off ALL BUT LIFE-SUPPORT BREATHING. OC will not deteriorate with age and unlike the tear gasses, WILL NOT CAUSE LASTING AFTEREFFECTS. One of the biggest misconceptions about defense spray is that the higher the percentage, the hotter and better it works. In most cases this could not be further from the truth. Most of the best, fastest incapacitating sprays in the world are from 2%-10%. The lighter the fluid, the faster is penetrates the membranes. The percentage has nothing to do with the actual SHU or "hot" in the spray. Also, thicker sprays can inflame the skin area more and last longer with this unnecessary inflammation. A good spray will put the attacker down and out allowing you to escape or take control of the situation. Because it is an inflammatory, rather than an irritant, OC is effective against all those who feel no pain such as psychotics, drunks and drug abusers. OC has proven itself to be the ABSOLUTE BEST DETERRENT available for attacking dogs and wild animal control. Another major advantage of OC is that it is not volatile and will not emit a lot of fumes like tear gases. The term OC (oleoresin capsicum) is a horticultural term which refers to chili peppers. There are many different kinds of chili peppers ranging from jalapenos, chiletpin, and cayenne to habaneros. They all have one thing in common. They all contain a substance that is very powerful -- an alkaloid called capsaicin (cap-say-a-sin). Just a single drop of tasteless and odorless capsaicin in 100,000 drops of water and the heat can be noticeable. In fact, capsaicin can be detected by humans at one part per ten million!

United States Patent [19]

Parsons

[11] **Patent Number:** **5,509,581**

[45] **Date of Patent:** **Apr. 23, 1996**

[54] **CHEMICAL IRRITANT DISPENSER**

[75] **Inventor:** **Kevin L. Parsons, Appleton, Wis.**

[73] **Assignee:** **Armament Systems and Procedures, Appleton, Wis.**

[21] **Appl. No.:** **287,852**

[22] **Filed:** **Aug. 9, 1994**

[51] **Int. Cl.⁶** **B67D 5/33**

[52] **U.S. Cl.** **222/153.13; 222/182; 222/183; 222/192; 222/325; 222/378; 222/402.11; 222/518**

[58] **Field of Search** **222/153.01, 153.13, 222/153.14, 182, 183, 192, 325, 402.11, 402.13, 510, 518, 378, 402.1**

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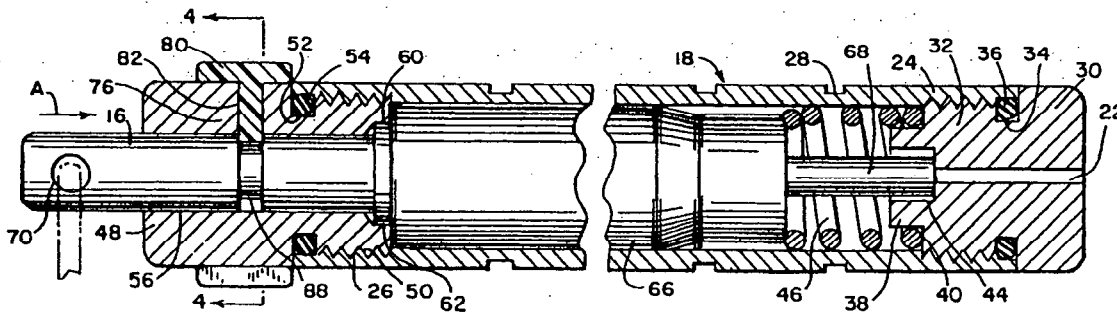
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Primary Examiner—Joseph A. Kaufman
Attorney, Agent, or Firm—Robert C. Curfiss; Butler & Binion

[57] **ABSTRACT**

A chemical irritant dispenser includes an in line nozzle, chemical canister and actuator, whereby the dispenser may held in the palm of the hand with the actuator between the thumb and forefinger and the nozzle at the heel of the hand, the dispenser further including a safety lock at the actuator end, the safety lock configured to be moved between the latched and unlatched positions by an upward movement of the thumb and the actuator configured to be operated by a forward movement of the thumb, without repositioning the dispenser in the hand.

15 Claims, 2 Drawing Sheets



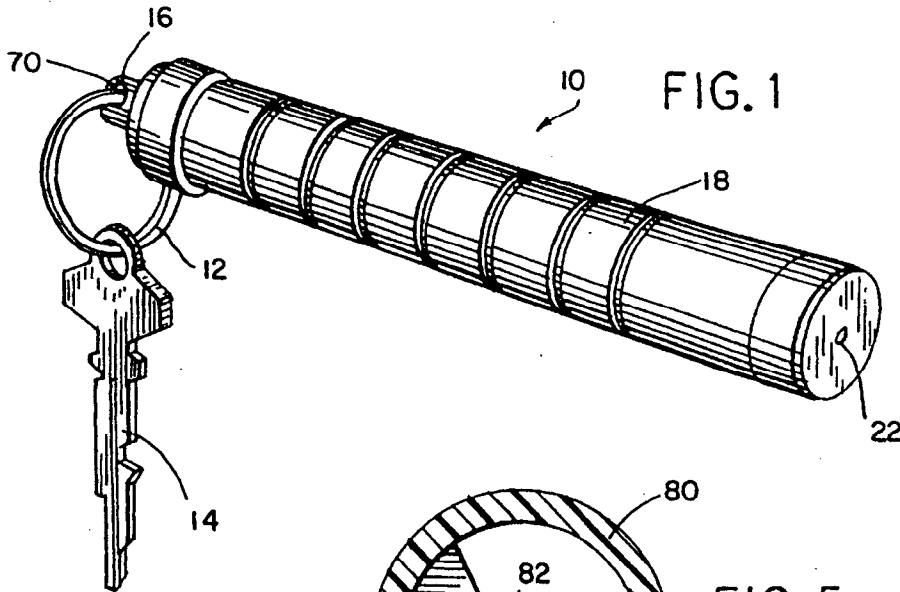


FIG. 1

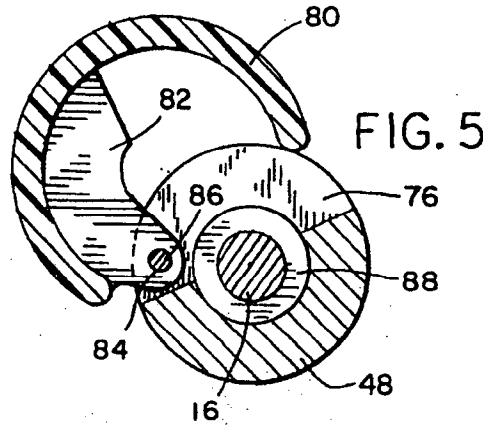


FIG. 5

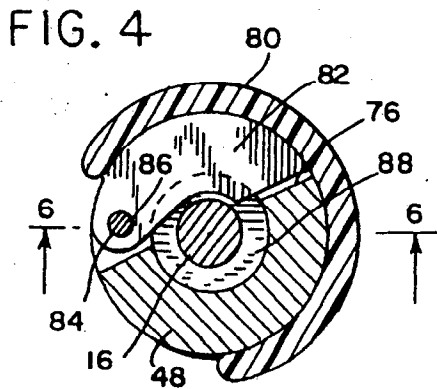


FIG. 4

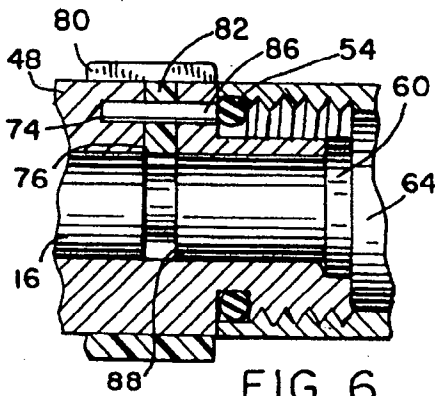


FIG. 6

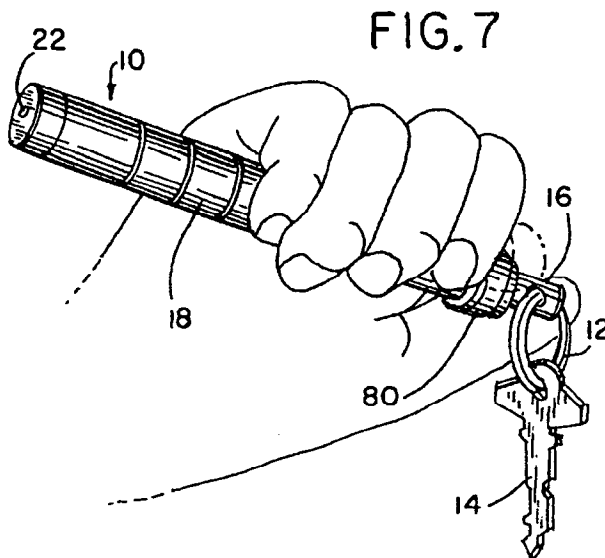


FIG. 7

CHEMICAL IRRITANT DISPENSER

BACKGROUND OF THE INVENTION

1. Field of the Invention

The subject invention is generally related to mace dispensers for use by the general consumer and is specifically directed to a chemical irritant dispenser which is designed to be readily located and oriented for use during a crisis situation, while minimizing the likelihood of misuse.

2. Discussion of the Prior Art

Chemical irritant dispensers are well known. Typically, the dispensers contain an aerosol pepper spray or other irritant, such as by way of example, the MACE brand of chemical irritant spray manufactured by MSI. Initially, such dispensers were designed for official use by law enforcement personnel and later by certain individuals as on the job protection, such as by way of example, postal service workers, delivery men and the like. Because the dispensers were used by selected personnel, proper training minimized the chances for misuse and the specific dispensers did not necessarily take into account the ease of use and of storage. Many such dispensers are carried in holsters worn on the belt of the uniform of the wearer. An example of such a holster is shown and described in U.S. Pat. No. 4,588,116, entitled: "Holster for a Chemical Tear Gas Projector", issued to A. Litman of May 13, 1986.

Typically, prior art dispensers are fabricated from a standard aerosol canister, and are held in a vertical position when deployed, much like a handheld aerosol paint dispenser. As these dispensers gained acceptance in the general population, certain difficulties began to surface. For example, the standard aerosol canister must be properly aimed or it is possible to spray oneself with the contents. The actuator button generally includes an arrow for indicating the direction of spray. While satisfactory in many applications, the chemical irritant dispensers are typically used under stress and the requirement for conscientious aiming is a significant drawback. A number of devices have been developed to deal with this issue, see for example U.S. Pat. No. 3,602,399, entitled: "Non-Lethal Weapon Dispenser", issued to A. Litman on Aug. 31, 1971. None of these devices has met with widespread acceptance. This is primarily due to the fact that location, aiming and firing require a concentrated thought process which eliminates the element of surprise and the ability to quickly act when under duress.

More recently, this has been dealt with by attempting to incorporate the irritant dispenser in a common implement such as a key chain or the like. Examples of such devices are shown in U.S. Pat. Nos. 4,044,922, entitled: "Protective Device", issued to L. Bordelon on Aug. 30, 1977, and 4,449,474, entitled: "Personal Security Device", issued to J. Andersson et al on Feb. 10, 1987. While such devices offer improvement over other configurations of such dispensers, they do not deal with two important issues. First, it is still necessary that the device be conscientiously aimed prior to using. Secondly, while common to provide a safety lock, it is not possible to unlatch the safety lock while holding the dispenser in an at ready position, requiring two separate actions to deploy the irritant. In order to expedite use, the lock is often left unlatched, creating a hazard of accidental release of the contents of the canister. Further, the key ring dispensers of the prior art are generally bulky and cumbersome, taking up substantial space in a purse, and not conducive to being carried on the person because of the

bulky, unsightly appearance. In addition, the dispensers of the prior art still require vertical positioning during use.

There are also prior art devices adapted for carrying a typical dispenser in a holder which has additional functions such as a key ring or the like. See, for example, Caruso U.S. Pat. No. 4,220,263 which discloses a holder or a pouch for a dispenser, with a closed end of the pouch formed to support a key ring. A flexible flap closes the pouch and may be depressed to activate the dispenser. As with many prior art dispensers and holders, the Caruso device does not incorporate an adequate safety system for minimizing either accidental release or improper aiming. In addition, the key ring of Caruso is not a functional feature of the design, neither in assisting in the orientation of the canister nor as part of the protective system incorporated in the design.

Yet another disadvantage of the prior art devices is the requirement that the entire unit be replaced once the supply of chemical is exhausted. This greatly increases the cost of replacement, with the resulting reduction in acceptability to the general population.

Therefore, there remains a need for a chemical irritant dispenser which is easy to carry and conceal as part of a commonly carried implement, while being simple to use in a spontaneous manner in a crisis. It is also desirable to provide an irritant dispenser which is easy to stow with a safety lock engaged and latched, wherein the dispenser can be retrieved for use and rapidly unlatched to minimize any time delay in use.

SUMMARY OF THE INVENTION

The subject invention is directed to a chemical irritant dispenser which is accessible, easy to use, includes a safety lock which is simple to latch and unlatch, and is of a design to be easily carried on the person or in a purse or the like. The dispenser of the subject invention is adapted for use with a small aerosol dispenser of approximately 3-5 inches in length and 1/2 inch in outer diameter. Heretofore, it was not practical to use the small dispensers because of their fragile nature. The present invention provides a durable container for protecting such dispensers without greatly increasing the bulk of the overall device. In addition, the container permits ready and inexpensive replacement of the aerosol canister, providing a dispenser with refillable inserts or cartridges.

It is an important feature of the subject invention that the irritant can be released while holding the dispenser in a horizontal position. This permits a key ring to be held in the normal position for use as a key holder while at the same time allowing for quick implementation of the dispenser without reorienting the device prior to use. It is another important aspect of the invention that the safety lock is readily visible in such a manner that it can be quickly ascertained whether or not the lock is latched, even in poor lighting. Further, the lock may be quickly unlatched while holding the dispenser in the at ready position.

The lock is also specifically designed so that it has a tendency to self-latch when the dispenser is stowed, for example, in a purse or when carried in the waist band of clothing. The safety lock is also designed to build in a secondary action for releasing the contents, further reducing the risk of accidental release. Further, the safety lock components can be easily replaced if damaged or rendered non-functional. This reduces the likelihood that the safety will be discarded and not replaced if damaged.

An important and novel feature of the dispenser of the subject invention is the manner in which the dispenser is

held during use. In the preferred embodiment, the dispenser is held in the palm of the hand with the arm upright and the thumb facing the user. The thumb is used to activate the dispenser, distinguishing it from prior art devices. The dispenser is adapted to be activated when held in a substantially horizontal position. This configuration and firing position greatly minimizes the risk of accidental misfiring and greatly reduces the likelihood that the user can accidentally release the chemical at himself. The thumb is used to release the safety and activate the device in two separate actions to further minimize the accidental activation of the device.

In the preferred embodiment of the dispenser of the subject invention, the actuator is designed to carry a typical key ring. The device is specifically designed to permit the key ring to be held in a functional position while at the same time holding the dispenser in an at ready grip. This permits rapid deployment in the event of a crisis.

It is, therefore, an object and feature of the subject invention to provide a chemical irritant dispenser suitable for use by the general public without any requirement for specialized training.

It is another object and feature of the subject invention to provide a chemical irritant dispenser wherein the safety lock is easily visible, even in poor light, and may be released while holding the dispenser in an at ready position.

It is also an object and feature of the subject invention to provide a chemical irritant dispenser in combination with a key ring wherein both the key ring and the dispenser can be held in the use position with a single grip.

It is yet another object and feature of the subject invention to provide a chemical irritant dispenser that includes a replaceable chemical cartridge and replacement components.

It is also an object and feature of the subject invention to provide a chemical irritant dispenser which is easily stowed and may be quickly retrieved and gripped in an at ready position during a crisis situation.

Other objects and features will be readily apparent from the drawings and the following detailed description of the preferred embodiments.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a perspective view of the dispenser and key ring combination.

FIG. 2 is an exploded perspective view of the assembly of FIG. 1.

FIG. 3 is an enlarged, longitudinal cross-sectional view of the assembly of FIG. 1.

FIG. 4 is a sectional view taken along the line 4—4 of FIG. 3 and showing the safety lock in the latched position.

FIG. 5 is a view looking in the same direction as FIG. 4 and showing the safety lock in the unlatched position.

FIG. 6 is a fragmentary view illustrating the safety lock assembly in detail.

FIG. 7 is a perspective view showing the manner in which the preferred embodiment of the invention is held for release of the chemical irritant.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

The preferred embodiment of the chemical irritant dispenser of the subject invention is shown in FIG. 1 and is designated by the numeral 10. As shown, the dispenser is in

combination with a typical key ring 12 for holding one or more keys 14. In the preferred embodiment, the stem 16 extends outwardly from the dispenser body 18 and defines the actuator. The stem includes a through hole 70 for receiving a typical split-ring key ring 12. The nozzle 22 is in axial alignment with the stem 16 and is located at the opposite end of the dispenser body 18.

As better seen in FIGS. 2 and 3, the dispenser body 18 comprises a generally cylindrical, open-ended tube having opposite internally threaded ends 24 and 26. The external surface of the tube may be ribbed, as at 28 to provide a better gripping surface. In the preferred embodiment, the tube is made of anodized aluminum and may be finished in any of a plurality of colors. End cap 30 includes the nozzle aperture 22 and is stepped to provide external threads 32 which mate with the tube threads at 24. An annular recess is provided at 34. When assembled as shown in FIG. 3, an O-ring is positioned in the recess 34, and is received in the outer end of the threaded end 24. This provides a resilient friction lock for maintaining the cap 30 in firm assembled relationship with the tube 18. The lower end (as drawn) of the end cap 30 includes a reduced, protruding boss 38, defining an annular channel 40 between the boss and the internal wall of tube 18. The nozzle aperture 22 is a through, axial bore terminating in an enlarged opening 44 in the boss area 38. The channel 40 defines a spring seat for the coil compression spring 46.

The opposite end cap 48 also includes a step portion having internal threads 50 for mating with the threads 26 in the tube. An annular recess 52 is provided for receiving the O-ring 54, to provide a resilient self-locking assembly when the cap 48 is tightened into tube 18 as shown in FIG. 3. The cap 48 includes a through axial bore 56 for receiving the actuator stem or pin 16. It will be noted the pin 16 includes an enlarged head 60 which is adapted to be received in the annular seat 62 in one end of the cap 48. This assures the pin cannot slip through the bore 56, once assembled.

The canister 64 is a standard small aerosol canister of approximately 3—5 inches in length and ½ inch in diameter. The canister includes a nozzle 66 which is operative in the well known manner to release the pressurized contents of the canister. Specifically, when the nozzle 66 is depressed axially toward the canister 64, a valve is opened for releasing the contents of the canister through the nozzle aperture 68.

As best shown in FIG. 3, the outer end of the nozzle 66 is received in the enlarged opening 44 of the cap 30. The spring 46 is positioned between the canister 64 and the cap 30 to normally urge the nozzle away from the cap 30. Cap 48 is then threaded into the tube 18 to hold the canister in the assembled position of FIG. 3. When the stem 16 is depressed or advanced in the direction of arrow A (FIG. 3) the canister is advanced against the spring 46 for forcing the nozzle end 66 into the canister to release the canister contents. As the contents are released through the axial opening 68 of the nozzle, they are introduced into the coaxial dispenser nozzle 22 and released.

In the preferred embodiment, a diametric key ring hole 70 is provided in the stem 16. This receives a standard split-ring key ring 12, as shown in FIG. 3. It will be noted that the key ring 12 serves as a stop for maintaining the stem 16 in the cap 48 when the cap is removed from the tube 18.

An additional feature of the configuration of the preferred embodiment is that the ends of tube 18 are identical and each cap 30 and 48 is adapted to be received in either threaded end 24 or 26, reducing both costs of manufacture and of assembly.

The safety lock of the preferred embodiment is one important aspect of the invention. As shown in FIG. 2, the threaded portion 50 of cap 48 includes a flat 72. A longitudinal bottomed hole 74 disposed radially outwardly of the flat 72. The cap 48 also includes an external channel 76 between the flat 72 and the outer end 78 of the cap. The hole 74 extends through the channel. A C-shaped partial ring 80 includes an internal, radially extending flange 82 which is adapted to be seated in the channel 76. The flange 82 includes a through hole 84 which is aligned with the hole 74 in the cap 48 when the ring 80 is properly positioned with the flange in the channel 76. As best seen in FIG. 6, a pivot pin 86 is positioned in the hole 74 and through the hole 84 of the ring, permitting the latch ring 80 to swing or pivot between the latched position of FIG. 4 and the unlatched position of FIG. 5.

As best seen in FIGS. 2 and 3, the actuator stem 16 includes an external annular channel 88. When the enlarged head 60 of the stem 16 is seated in the recess 62 of the cap 48, the channel 88 of the stem is in alignment with the channel 76 of the cap 48 and with the safety ring flange 82. As shown in FIG. 6, the pin 86 is held in position by the O-ring 54. Thus, if the safety lock breaks, it can be readily replaced simply by removing the O-ring and the pin.

In the preferred embodiment, the ring 80 is made of a resilient material such as nylon or the like and is dimensioned to snap fit over the outer periphery of the cap 48. In order to lock the dispenser in a deactivated condition, the ring 80 is snapped into the closed position of FIG. 4, with the flange 82 firmly seated in channel 86 the stem 16 (see particularly FIG. 6). This locks the stem against axial movement and precludes compression of the canister 64 into the spring 46, thereby precluding activation of the canister nozzle 68.

In order to disengage the safety lock, the ring 80 is flipped or pivoted outwardly as shown in FIG. 5, removing flange 82 from the channel 86 in stem 16, permitting axial movement of the stem into the canister 64, for advancing the canister into nozzle 66 and releasing the canister contents.

It is an important aspect of the invention that the dispenser may be held in such a manner that it is easy to use and aim. As shown in FIG. 7, it is normal to hold the elongated tube 18 in the palm of the hand with the key(s) 14 between the thumb and forefinger. This permits a key to be grasped between the thumb and forefinger in normal fashion for inserting it into a lock. In the event the dispenser is required to function, the tube body may be held in exactly the same manner. The thumb can be used to flip open the safety latch 80 and then place on the outer end of the stem to depress it and release the canister contents through the nozzle 22.

It has been found that the two deliberate actions of the thumb, first to flip open the safety and then to depress the actuator, provide additional assurance against accidental release of the chemicals. Also, the configuration of the preferred embodiment substantially minimizes the chance for accidental spraying of the user, since it would require an awkward positioning of the dispenser and the hand in order to spray oneself. In addition, the configuration of the safety lock tends to make it self locking. That is, if the dispenser is dropped into a purse or the like after use, rolling or jostling will tend to force the lock back into the closed position. Conversely, the lock is not likely to be inadvertently opened by similar motions.

It is also an important aspect of the invention that the canister cartridge may be readily replaced once spent, preserving the remainder of the dispenser assembly.

The dispenser of the present invention has proven to be a reliable, easy to use, and relatively safe chemical irritant dispenser. While specifically designed for use by the general public, it has been found to be very desirable for use by law enforcement personnel as well as by other industries where irritants are typically carried as a routine deterrent. While certain aspects and features of the invention have been described in detail herein, it will be readily understood that the invention includes all enhancements and modifications within the scope and spirit of the following claims.

What is claimed is:

1. A dispenser for a dispersible chemical in a pressurized aerosol canister having a selectively operable nozzle normally in a closed condition for retaining the pressurized chemical in the dispenser and operable to be opened for axially projecting the chemical, the dispenser comprising:

- a. a housing for the aerosol canister, the housing including a dispenser nozzle in a coaxial relationship with the canister nozzle for releasing and axially dispersing the pressurized chemical from the dispenser;
- b. an actuator in the housing in coaxial alignment with the canister nozzle and the dispenser nozzle, said actuator movable between a normally inactivated position and an activated position for selectively operating and opening the canister nozzle for releasing the pressurized chemical through the canister nozzle and the coaxial housing nozzle;
- c. a biasing element in the housing for normally urging the actuator into the inactivated position; and
- d. a safety lock associated with the actuator and moveable between a latched position wherein the safety lock is engaged with the actuator for latching it in the inactivated position and an unlatched position wherein the safety lock is disengaged from the actuator, whereby the actuator is enabled to be moved against the biasing element for operating the canister nozzle.

2. The dispenser of claim 1, wherein the housing further comprises a hollow tube having opposite open ends and wherein the canister is positioned within the tube, the housing further including a first end cap for closing one end of the tube, the first end cap including a through axial hole in alignment with the canister nozzle for defining the dispenser nozzle, and a second end cap for closing the other end of the tube for maintaining the canister within the tube.

3. The dispenser of claim 2, wherein the biasing element comprises a compression spring in the housing and seated against the first end cap, the spring in direct communication with the canister for axially urging it toward the second end cap.

4. The dispenser of claim 3, wherein the second end cap includes an axial through aperture and the actuator comprises an actuator pin extending through the aperture and having opposite outer ends, the actuator pin axially movable in the aperture, one of said outer actuator pin ends being in communication with the canister.

5. The dispenser of claim 4, wherein the other of said outer actuator pin ends extends outwardly from the second end cap and is adapted to be manually engaged, whereby the actuator pin is axially moved against the force of the compression spring.

6. The dispenser of claim 5, further including a diametrically disposed through hole adjacent the other of said actuator pin ends and a key ring carried in said through hole.

7. The dispenser of claim 6, wherein the one of said actuator pin ends is enlarged for precluding passage of the actuator pin end through the through hole in the second end cap.

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8. The dispenser of claim 2, wherein the second end cap includes a through hole and the actuator comprises an actuator pin extending through the through hole and axially movable relative thereto, the safety lock comprising an element mounted on the second end cap and movable between an actuator pin engaging and latched position whereby axial movement of the actuator pin is precluded and a pin releasing and unlatched position whereby the actuator pin is free to move axially relative to the end cap.

9. The dispenser of claim 8, wherein the safety lock includes a partial ring partially circumscribing the end cap and having opposite outer ends, one ring end being pivotally secured to the end cap and the other ring end being pivotable into and out of engagement with the end cap.

10. The dispenser of claim 9, the said one ring end having a through hole, the end cap further comprising a removable pivot pin extending through the through hole for pivotally mounting the ring on the end cap, whereby the ring is removed by removing the removable pivot pin.

11. The dispenser of claim 9, wherein the housing is adapted to be carried in the palm of the hand with the actuator and safety lock ring positioned between the thumb and forefinger, whereby the thumb is used for both pivoting the ring between the latched and unlatched positions and for engaging and axially advancing the actuator.

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12. The dispenser of claim 9, wherein the actuator pin includes a channel extending about the periphery thereof and wherein the safety lock includes a flange adapted to enter the channel when in the latched position and to be withdrawn from the channel when in the unlatched position.

13. The dispenser of claim 2 wherein the safety lock is in the second end cap and further comprises a peripheral shoulder on the end cap, a reduced cylindrical shaft extending axially outward from the shoulder, a clearance hole in the shoulder, a split ring received on the shoulder and adapted for partially circumscribing the reduced shaft, a clearance hole in the ring, a pivot pin passing through the clearance hole in the ring and into the clearance hole in the shoulder whereby the ring is pivotable relative to the second end cap, and securing means for securing the pivot pin in the holes.

14. The dispenser of claim 13, wherein the securing means comprises a resilient O-ring adapted to be positioned over the reduced shaft and held under compression thereagainst, the O-ring adapted for engaging and holding the pivot pin in place.

15. The dispenser of claim 2, wherein the first end cap further includes a seat for positioning the canister nozzle in alignment with the dispenser nozzle.

* * * * *

United States Patent [19]

[11] Patent Number: **5,839,624**

Parsons

[45] Date of Patent: ***Nov. 24, 1998**

[54] **HORIZONTAL RELEASE AEROSOL CANISTER**

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[75] Inventor: **Kevin L. Parsons, Appleton, Wis.**

[73] Assignee: **Armament Systems and Procedures, Inc., Appleton, Wis.**

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[*] Notice: This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

Primary Examiner—Kenneth Bomberg
Attorney, Agent, or Firm—McDonnell Boehnen Hulbert & Berghoff

[21] Appl. No.: **632,907**

[57] **ABSTRACT**

[22] Filed: **Apr. 16, 1996**

A fluid entry port is contained in the nozzle body of an aerosol canister for permitting continuous communication of the nozzle with the fluid charge regardless of orientation of the canister. The fluid entry port is used in combination with a typical dip tube configuration for drawing the fluid charge from the bottom of the container. The nozzle body and canister are configured to permit self-centering in the assembly process.

[51] Int. Cl.⁶ **B65D 83/14**

[52] U.S. Cl. **222/402.19**

[58] Field of Search **222/402.1, 402.19, 222/321.4, 376**

[56] **References Cited**

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12 Claims, 2 Drawing Sheets

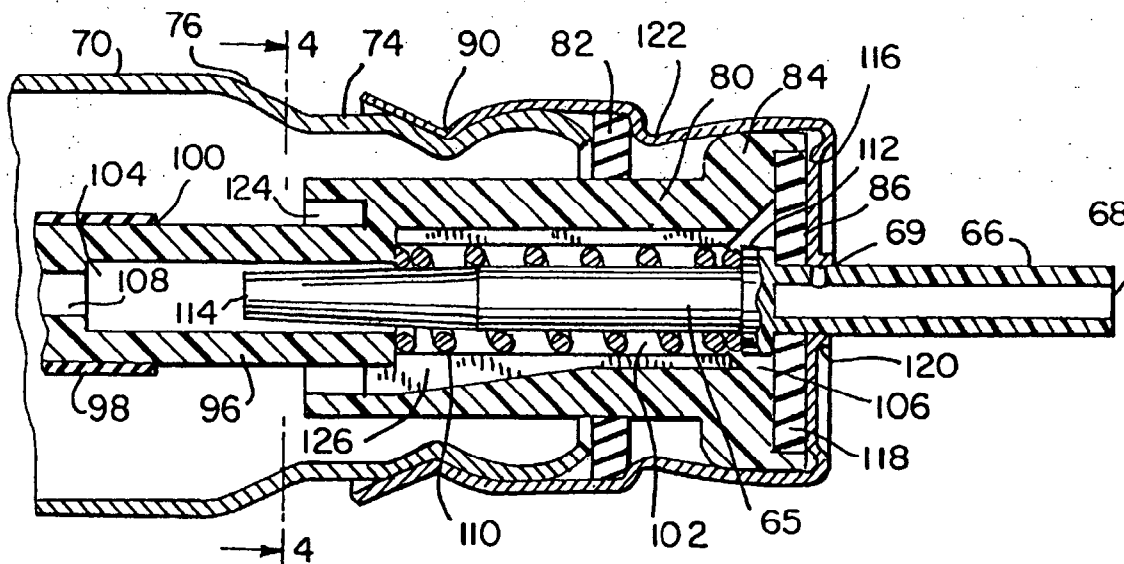


FIG. 1

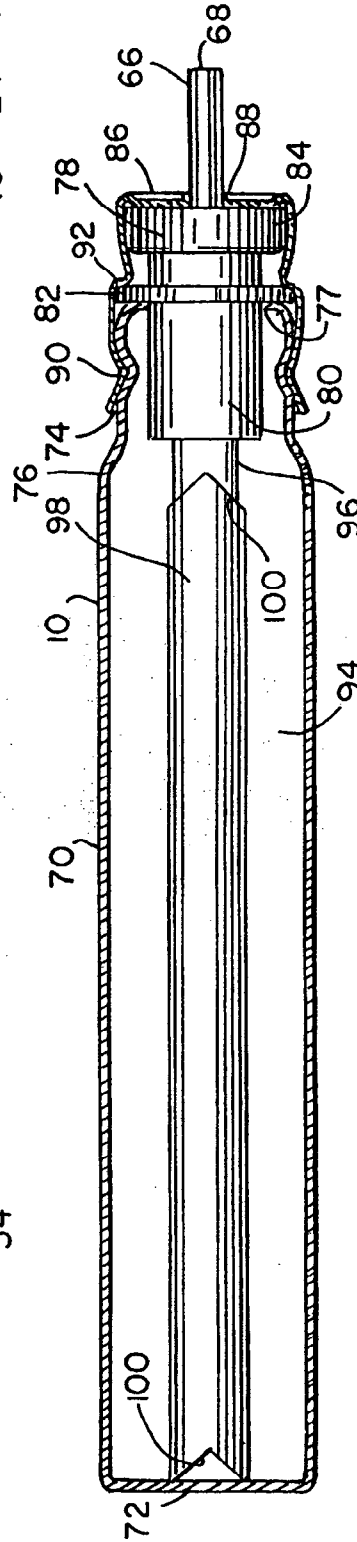
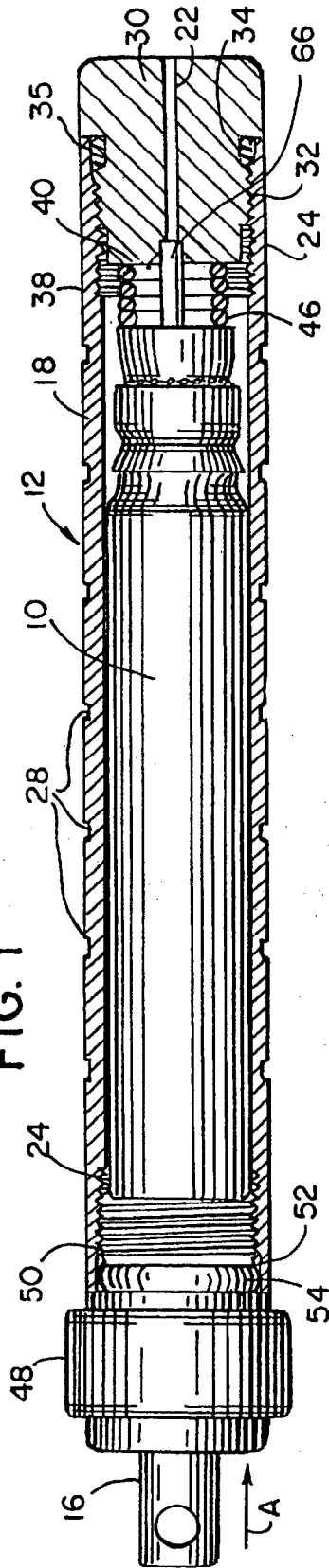


FIG. 2

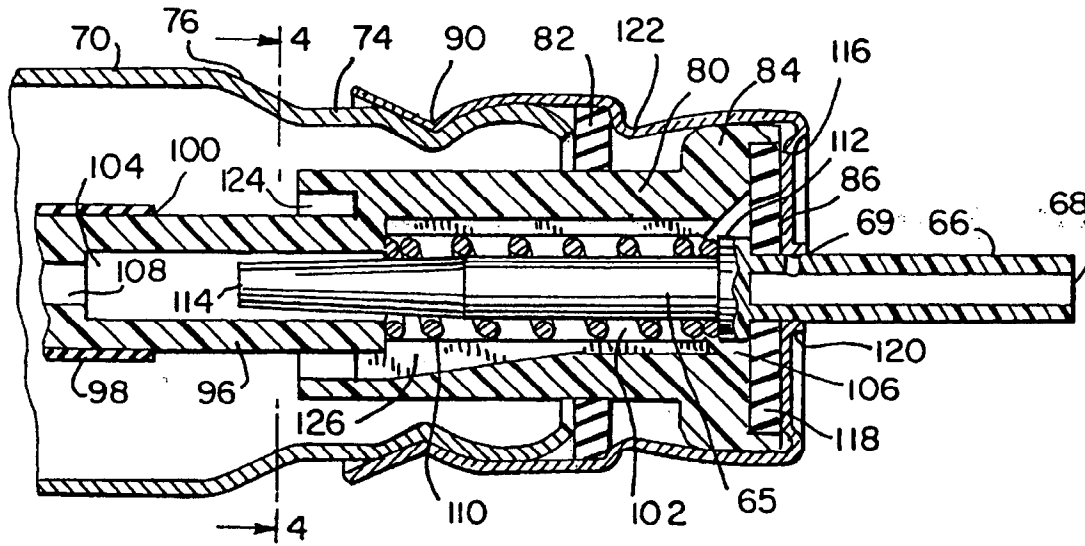


FIG. 3

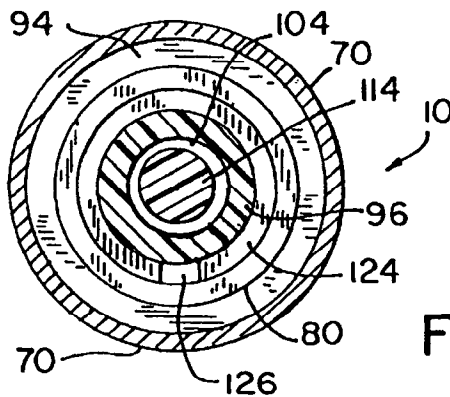


FIG. 4

HORIZONTAL RELEASE AEROSOL CANISTER

BACKGROUND OF INVENTION

1. Field of Invention

The subject invention is generally related to aerosol canisters for use by the general consumer and is specifically directed to an aerosol canister adapted for use in releasing the spray along a substantially horizontal path along the longitudinal axis of the canister. The canister is particularly well suited for use in connection with a chemical irritant dispenser carrier which is designed to be readily located and oriented for use during a crisis situation, while minimizing the likelihood of misuse.

2. Discussion of the Prior Art

Chemical irritant dispensers are well known. Typically, the dispensers contain an aerosol pepper spray or teargas or other irritants, such as by way of example, the MACE brand of chemical irritant spray manufactured by MSI. Initially, such dispensers were designed for official use by law enforcement personnel and later by certain individuals as on the job protection, such as postal service workers, delivery men and the like. Because the dispensers were used by selected personnel, proper training minimized the chances for misuse and the specific dispensers did not necessarily take into account the ease of use and of storage. Many such dispensers are carried in holsters worn on the belt of the uniform of the wearer. An example of such a holster is shown and described in U.S. Pat. No. 4,588,116, entitled: "Holster for a Chemical Tear Gas Projector", issued to A. Litman of May 13, 1986.

Typically, prior art dispensers are fabricated from a standard aerosol canister, and are held in a vertical position when deployed, much like a handheld aerosol paint dispenser. As these dispensers gained acceptance in the general population, certain difficulties began to surface. For example, the standard aerosol canister must be properly aimed or it is possible to spray oneself with the contents. The actuator button generally includes an arrow for indicating the direction of spray. While satisfactory in many applications, the chemical irritant dispensers are typically used under stress and the requirement for conscientious aiming is a significant drawback. A number of devices have been developed to deal with this issue, see for example U.S. Pat. No. 3,602,399, entitled: "Non-Lethal Weapon Dispenser", issued to A. Litman on Aug. 31, 1971. None of these devices has met with widespread acceptance. This is primarily due to the fact that location, aiming and firing require a concentrated thought process which eliminates the element of surprise and the ability to quickly act when under duress.

More recently, this has been dealt with by attempting to incorporate the irritant dispenser in a common implement such as a key chain or the like. Examples of such devices are shown in U.S. Pat. No. 4,044,922, entitled: "Protective Device", issued to L. Bordelon on Aug. 30, 1977, and U.S. Pat. No. 4,449,474, entitled: "Personal Security Device", issued to J. Andersson et al on Feb. 10, 1987.

While such devices offer improvement over other configurations of such dispensers, they do not deal with two important issues. First, it is still necessary that the device be conscientiously aimed prior to using. Secondly, while common to provide a safety lock, it is not possible to unlatch the safety lock while holding the dispenser in an at ready position, requiring two separate hand positions to deploy the irritant. In order to expedite use, the lock is often left

unlatched, creating a hazard of accidental release of the contents of the canister. Further, the key ring dispensers of the prior art are generally bulky and cumbersome, taking up substantial space in a purse, and not conducive to being carried on the person because of the bulky, unsightly appearance. In addition, the canisters of the prior art dispensers still require vertical positioning during use.

My copending patent application entitled: CHEMICAL IRRITANT DISPENSER; application Ser. No. 08/287,852; filed on Aug. 9, 1994 (now issued), and incorporated by reference herein, addresses many of these issues and provides a chemical irritant dispenser which is easy to carry and conceal as part of a commonly carried implement, while being simple to use in a spontaneous manner in a crisis. As there disclosed, the chemical irritant dispenser of my copending application also includes a safety lock which is simple to latch and unlatch, and is of a design to be easily carried on the person or in a purse or the like. The dispenser is adapted for use with a small aerosol cartridge or canister of approximately 3-5 inches in length and 1/2 inch in outer diameter. In addition, the container permits ready and inexpensive replacement of the aerosol canister, providing a dispenser with refillable charges.

One of the important features of the aforementioned chemical irritant dispenser is the ability to hold it in the palm of the hand with the hand upright and the canister in a horizontal position, wherein the spray is activated in a single safety latch and depression mode using the thumb while holding the dispenser in the palm of the hand. This permits release of the irritant while holding the dispenser in a horizontal position and further permits a key ring to be held in the normal position for use as a key holder while allowing for quick implementation of the dispenser without reorientation of the device. This configuration and firing position greatly minimizes the risk of accidental misfiring and greatly reduces the likelihood that the user can accidentally release the chemical at himself. The thumb is used to release the safety and activate the device in two separate actions to further minimize the accidental activation of the device.

While the device of my aforementioned application clearly resolves many of the issues which hindered the widespread acceptance of irritants as personal defense tools, the associated readily available canister technology has several drawbacks which, if overcome, would greatly enhance the acceptability of the irritant dispenser by the public. The aerosol canisters of the prior art are primarily designed to be used in an upright position, with the nozzle aimed at a right angle to the canister axis when a horizontal spray is desired. The small canisters used in my dispenser are also often used in an upward, vertical spray configuration in implements such as lighters and the like. When placed in a horizontal axis orientation such as is desirable for the irritant dispenser use, the fluid contents of the canister cannot be completely exhausted before the pressurized dispersant is released. While this does not interfere with the functionality of the dispenser, it increases the cost of use by requiring premature replacement of the canister.

In addition, as the canister is reduced in size, the cost of manufacture increases due to the tighter tolerances which must be met as a result of the miniaturization process. This problem is compounded by the length to diameter ratio. When products are impact extruded, the length to diameter ratio becomes critical in holding tolerances. Relieving tolerance ranges is desirable to make such products economically feasible. This further increases the cost of use and replacement of the canister in any application.

Therefore, it is desirable to provide an aerosol canister which is specifically designed for use in any orientation, and

which is particularly adapted for use in a horizontal orientation. It is also desirable to provide an aerosol canister which may be manufactured in a smaller package than standard canisters without paying the typical miniaturization cost penalty.

SUMMARY OF THE INVENTION

The aerosol canister of the subject invention is specifically designed to be used in a horizontal orientation, but is equally well suited to be used in any desirable orientation, making the canister well suited for universal application. In addition, the canister is redesigned to permit miniaturization without the typical inherent cost penalty.

In the preferred embodiment of the invention, the canister is specifically adapted for use in a chemical irritant dispenser system such as that shown in my aforementioned copending patent application Ser. No. 08/287,852, and is intended to be oriented in a generally horizontal position during use. By placing a tap at the nozzle end, the fluid contents of the canister are assured of being upstream of the pressurized dispersant, assuring proper release of the contents when the nozzle is activated regardless of the orientation of the canister. Specifically, it has been found that the placement of a fluid entry port in the nozzle body permits continuous communication of the nozzle with the fluid charge regardless of orientation. In the preferred embodiment this is provided by an annular recess and aperture in the nozzle body. The presence of this opening does not cause a leak of dispersant into the nozzle when the canister is in the upright position because the amount of area exposed to the dispersant at the dip tube end of the canister is substantially greater than the open area of the annular recess and the pressurized dispersant moves the fluid into the nozzle to seal the annular recess from the gaseous dispersant. More importantly, the annular opening permits the liquid charge to flow into the nozzle chambers when the canister is held in a horizontal position or other nonvertical orientation. This creates a head of fluid in advance of the gaseous dispersant and assures that the nozzle will properly operate regardless of canister orientation.

The canister of the preferred embodiment also includes a larger than standard fluid tube to increase volume of fluid in the tube to provide better flow of the fluid from a horizontal position, increasing the efficacy of the dispenser. The broader, high volume spray increases the working zone of the dispenser.

In order to maintain cost control while reducing the size of the canister, the manufacturing tolerance ranges of the larger commercial canisters are preserved without any loss of dependability and repeatability. In the preferred embodiment this is achieved by incorporating self centering assembly components to assure proper sealing of the canister after it has been charged. This is particularly important when the canister is used in the preferred application for chemical irritant dispersants. Any leakage of the contents would release the irritant in an undesired manner, potentially causing discomfort to the user. In the preferred embodiment, the self-centering of the canister cap is accomplished by incorporating a reduced canister neck portion and an unrolled open end or mouth. The larger cap gasket or seal can then be seated anywhere on the reduced, unrolled mouth without fear of an improper seal. This permits looser tolerances in the manufacturing process without reducing the reliability of the seal.

The canister of the subject invention is particularly useful in any horizontal release application and is designed in such a manner to be cost competitive with larger prior art vertical configurations.

It is, therefore, an object and feature of the subject invention to provide a universal aerosol canister which is adapted to be used in any directional orientation.

It is another object and feature of the subject invention to provide an aerosol canister which is particularly well adapted for horizontal spray applications.

It is an additional object and feature of the subject invention to provide a horizontal release aerosol canister particularly well suited for chemical irritant dispenser applications.

It is a further object and feature of the subject invention to provide a miniature aerosol canister with the same reliability and dependability as standard size canisters without incurring a cost penalty.

Other objects and features will be readily apparent from the drawings and the following detailed description of the preferred embodiments.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a longitudinal cross-section of an aerosol canister carrier including a replaceable aerosol canister or canister made in accordance with the teachings of the subject invention.

FIG. 2 is a longitudinal cross-section of the aerosol canister of FIG. 1.

FIG. 3 is a partial, enlarged view of nozzle end of the canister, looking in the same direction as FIG. 2.

FIG. 4 is a cross-sectional view taken along the line 4—4 of FIG. 3.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

As shown in FIG. 1 of the drawings, the preferred embodiment of the aerosol canister 10 of the subject invention is shown installed in a chemical irritant dispenser assembly 12. The dispenser assembly is more fully described in my copending application entitled: CHEMICAL IRRITANT DISPENSER; application Ser. No. 08/287,852; filed on Aug. 9, 1994 (now issued), and incorporated by reference herein. In general the dispenser assembly 12 includes a dispenser body 18 defined by a generally cylindrical, open-ended tube having opposite internally threaded ends 24 and 26. The external surface of the tube may be ribbed, as at 28 to provide a better gripping surface. The tube 18 may be made of anodized aluminum and may be finished in any of a plurality of colors. End cap 30 includes the nozzle aperture 22 and is stepped to provide external threads 32 which mate with the tube threads at 24. An annular recess is provided at 34. When assembled as shown in FIG. 3, an O-ring 35 is positioned in the recess 34, and is received in the outer end of the threaded end 24. This provides a resilient friction lock for maintaining the cap 30 in firm assembled relationship with the tube 18. The opposite end of the end cap 30 includes a reduced, protruding boss 38, defining an annular channel 40 between the boss and the internal wall of tube 18. The nozzle aperture 22 is a through, axial bore terminating in an enlarged opening 44 in the boss area 38. The channel 40 defines a spring seat for the coil compression spring 46.

The opposite end cap 48 also includes a step portion having internal threads 50 for mating with the threads 26 in the tube. An annular recess 52 is provided for receiving the O-ring 54, to provide a resilient self-locking assembly when the cap 48 is tightened into tube 18. The cap 48 includes a through axial bore for receiving the actuator stem or pin 16.

The preferred embodiment of the canister 10 is approximately 3-5 inches in length and 1/2 inch in diameter. The canister includes a nozzle 66 which is operative to release the pressurized contents of the canister. Specifically, when the nozzle 66 is moved axially toward the canister 10, a valve is opened for releasing the contents of the canister through the nozzle aperture 68, as will be described. In the preferred embodiment, the outer end of the nozzle 66 is adapted to be received in an enlarged open end of the nozzle aperture 22 of the cap 30. The spring 46 is positioned between the canister 10 and the cap 30 to normally urge the nozzle away from the cap 30. The valve spring 110 (see FIG. 3) can also provide this function as a secondary function. Cap 48 is then threaded into the tube 18 to hold the canister in the assembled position of FIG. 1. When the stem 16 is depressed or advanced in the direction of arrow A (FIG. 1) the canister is advanced against the spring 46 for forcing the nozzle end 66 into the canister to release the canister contents. As the contents are released through the axial opening 68 of the nozzle, they are introduced into the coaxial dispenser nozzle 22 and released.

As shown in FIGS. 2 through 4, the canister is uniquely configured to permit horizontal orientation of the dispenser. The canister assembly includes a formed, cylindrical container 70 having a closed bottom or end 72. The opposite, open end 74 is reduced at 76 and terminates in a radially inwardly tapered or extending edge or lip 77. The nozzle assembly 78 is includes two primary members comprising an integral nozzle tube 66 and body 80 which is inserted through the central aperture in a seal ring 82. The nozzle tube end 84 of the body 80 may be enlarged to facilitate assembly.

An end cap 86 includes a central aperture 88 for accommodating the nozzle tube 66. The end cap is adapted to be placed over the reduced end 74 of the tube 70 and crimped in assembled relationship therewith, as shown at 90. The seal ring 82 is seated against the lip 77 and is held thereagainst by the recess 92 provided in the end cap 86. The seal ring seals the interior chamber 94 of the cartridge against leakage. It will be noted that the tapered end 77 of the canister body engages the seal ring 82 generally at the midpoint of the ring, permitting maximum play between the seal ring and the canister during assembly.

It is an important feature of the invention that the lip or edge 77 be placed to permit maximum play in the assembly of the nozzle 80 to the canister 70. This assures a good seal between the nozzle assembly and the tube without requiring tight tolerances to be held, reducing the overall costs of manufacture and assembly. The reduced outer end 74 of the tube 70 also assures self centering of the nozzle and end cap assembly on the tube by making the outer end of the tube closer to the size of the standard nozzle body outer diameter.

The nozzle body 80 includes an integral stem 96 for receiving a fluid dip tube 98. In the preferred embodiment the dip tube is enlarged to provide a broader spray to be broadcast through the nozzle tube 66. In a typical configuration the dip tube is of a 0.040 inner diameter. In the preferred embodiment the inner diameter is increased to 0.140. Both ends of the tube 98 are cut in a V-configuration 100 to facilitate assembly of the dip tube on the stem 96 and to prevent a potential seal between the dip tube and the bottom of the can. The dip tube ends 100 are interchangeable.

The complete nozzle assembly is shown in FIG. 3. The main body 80 of the preferred embodiment is generally cylindrical with an enlarged head 84, and an integral,

reduced stem 96. The stem is adapted to receive one end 100 of the dip tube 98. A through hole runs the entire length of the nozzle body and includes a spring chamber 102, a valve chamber 104, an expanding exit port 106 and an entry port or way 108.

The nozzle tube 66 is an integral member of the valve assembly 65 and includes a central bore or aperture 68 with a radial entry port 69. A compression spring 110 is placed in the spring chamber 102 and the valve assembly 65 is placed in the spring chamber 102 with the enlarged spring seat 112 in engagement with the spring 110. The valve stem 114 extends into the stem chamber 104 and the nozzle tube 66 extends outwardly from the expanding release chamber 106 of the nozzle body. The outer end of the enlarged head 84 of the nozzle body includes an annular seat 116 adapted for receiving a closure gasket 118. The closure gasket 118 includes a through hole 120 for accommodating the nozzle tube 66. The spring seat 112 serves as a closure element for closing the hole 120 and assuring a good seal when the nozzle is in the deactivated position of FIG. 3. The end cap 86 is placed over the nozzle assembly to maintain it in assembled relationship. Typically, the nozzle assembly is pre-assembled and the endcap is reduced at 122 to a smaller diameter than the enlarged head 84 of the body to complete the nozzle sub-assembly.

The nozzle sub-assembly is then mounted on the canister 70 by placing the sealing ring around the periphery of the nozzle body 80 and placing the end cap 86 over the reduced end 74 of the canister. The seal is seated against the upper, unrolled end 77 of the canister and the cap is secured in place as by crimping its perimeter into the canister as shown at 90.

In typical use, when the valve stem 114 is moved against the spring 110 the nozzle tube entry port 69 enters the release chamber 106 and the fluid is propelled by the dispersant through the dip tube 98 into the nozzle body through ports and chambers 108, 104, 102 and 106 and into the entry port 69 of the nozzle tube 66, where it is released through the bore 68.

In the preferred embodiment, the nozzle assembly includes an annular chamber 124 between the reduced nozzle stem 96 and the nozzle body 80. A generally longitudinal channel 126 communicates the annular chamber 124 with the spring chamber 102 and the opposite end of the chamber 124 is open into the canister 70. This permits universal orientation of the canister.

Specifically, once the canister is filled with fluid and a gaseous dispersant, the fluid will normally gravitate to the lowest point of the canister. In the prior art canisters, this was not a problem if the fluid is always between the dispersant and the nozzle so that the gaseous dispersant cannot escape through the nozzle ahead of the fluid. Thus, as long as the canister is held generally upright the fluid surrounds the open lower end of the dip tube 98 and when the nozzle is activated the pressurized dispersant forces the fluid up into the tube and through the nozzle. However, if the canister is held at an angle the dip tube is often exposed directly to the dispersant and when the nozzle is activated dispersant gases are released without the fluid charge.

It is an important feature of the subject invention that the canister may be held in any orientation without interfering with the fluid flow into the nozzle. It has been found that the placement of a fluid entry port in the nozzle body permits continuous communication of the nozzle with the fluid charge regardless of orientation. In the preferred embodiment this is provided by the annular recess 124 and the aperture 126 in the nozzle body 80. The presence of this

7

opening does not cause a leak of dispersant into the nozzle when the canister is in the upright position because the amount of area exposed to the dispersant at the dip tube end of the canister is substantially greater than the open area of the annular recess and the pressurized dispersant moves the fluid into the nozzle to seal the annular recess from the gaseous dispersant. More importantly, the annular opening 124 permits the liquid charge to flow into the nozzle chambers when the canister is held in a horizontal position or other non-vertical orientation. This creates a head of fluid in advance of the gaseous dispersant and assures that the nozzle will properly operate regardless of canister orientation.

While certain features and embodiments of the invention have been described in detail herein, it will be readily understood that the invention encompasses all modifications and enhancements within the scope and spirit of the following claims.

What is claimed is:

1. An aerosol canister for use in any orientation including horizontally, the canister having a container with a first and a second end defining a chamber therebetween, the chamber being adapted to be charged with a chemical irritant fluid and a pressurized gaseous dispersant and an improved nozzle associated with the first end of the container for releasing the chemical irritant fluid when activated, the improved nozzle comprising:

- a. a nozzle body having a through aperture, the nozzle body adapted for mounting on said first end of the container;
- b. a valve assembly mounted in the through aperture of the nozzle body and movable between a closed position for sealing the chamber and an open position for releasing the chemical irritant fluid from the container;
- c. a tubular member coupled to the nozzle body and in fluid communication with the valve assembly for introducing chemical irritant fluid at the second end of the container into the through aperture of the nozzle body; and
- d. the nozzle body further provided with a means for bypassing the tubular member to introduce the chemical irritant fluid adjacent said first end of the container directly into the through aperture of the nozzle body, the bypassing means including an annular recess about the nozzle body and an entry to the annular recess, the entry to the annular recess being located directly proximate to the first end of the container so as to allow the container to be substantially emptied of the chemical irritant fluid.

2. An aerosol canister as called for in claim 1, wherein the annular recess is positioned concentrically about the tubular member and proximate the valve assembly.

3. An aerosol canister as called for in claim 2, wherein the nozzle body further includes a valve chamber for housing

8

the valve assembly and wherein the annular recess communicates the valve chamber with the container through the nozzle body.

4. An aerosol canister as called for in claim 2, wherein the tubular member is a stem extending outwardly from the nozzle body into the container.

5. An aerosol canister as called for in claim 4, wherein the nozzle body is of a generally circular cross-section of a first diameter and the stem is of a generally circular cross-section of a second diameter and is smaller than and generally concentric with the nozzle body and wherein the annular recess is about the periphery of the stem and has a cross-sectional area.

6. An aerosol canister as called for in claim 5, further including a hollow tube connected with the stem and extending substantially toward the second end of the container, the tube including a through aperture having a cross-sectional area that is larger than the cross-sectional area of the annular recess.

7. An aerosol canister as called for in claim 1, the container including a lip for receiving the nozzle body, and a sealing member for engaging the lip, the sealing member of a cross-sectional area larger than a cross-sectional area of the lip, whereby play is permitted between the lip and the sealing member during assembly.

8. An aerosol canister as called for in claim 7, the container of an elongated, generally cylindrical shape, wherein the first end is open and the second end is closed and further wherein the first open end is of reduced cross-section and terminates in an open edge for defining the lip.

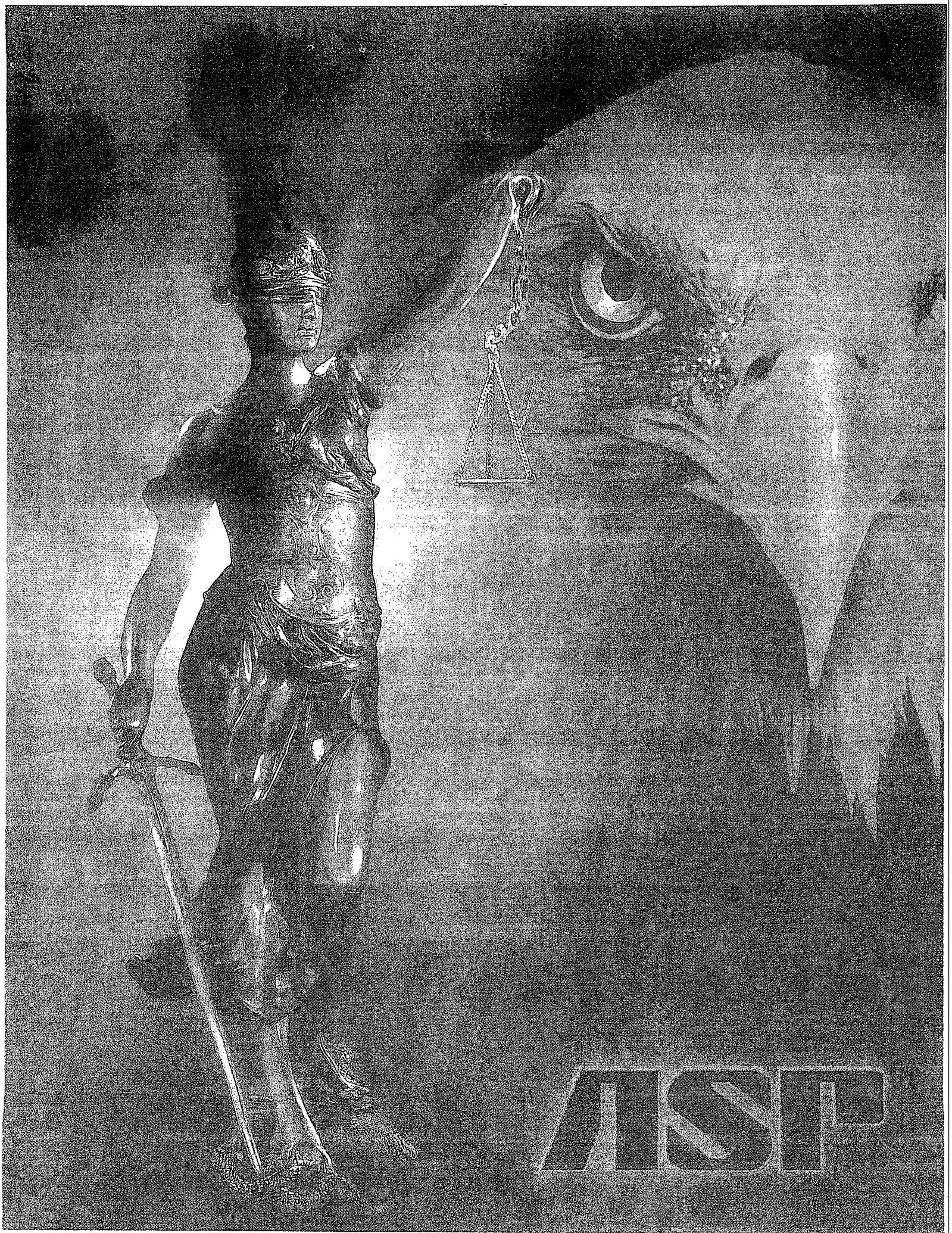
9. An aerosol canister as called for in claim 8, further including an end cap adapted for receiving the nozzle body, the end cap of an elongated, generally cylindrical shape larger than the first open end of the container, whereby the end cap may be placed over the first open end of the container.

10. An aerosol canister as called for in claim 9, wherein the first open end of the container is of a reducing taper, whereby the end cap is self-centering as it is introduced onto the container.

11. An aerosol canister as called for in claim 5, wherein the nozzle body further includes a valve chamber portion longitudinally displaced from the annular recess, wherein the bypassing means further includes a longitudinally extending channel for communicating the annular recess with said valve chamber portion.

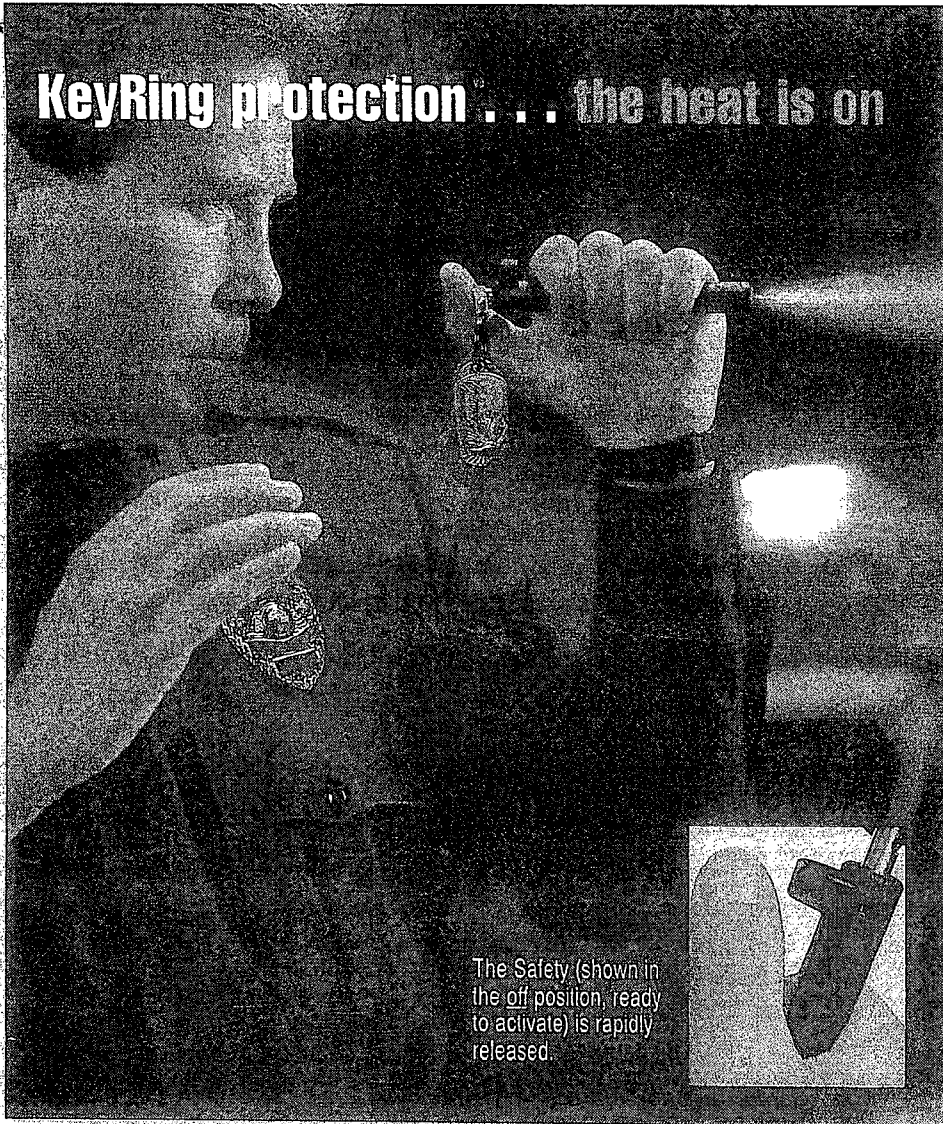
12. An aerosol canister as called for in claim 1, wherein the annular recess is dimensioned such that a seal of chemical irritant fluid is created in the annular recess when the canister is in an upright orientation to prevent the dispersant from leaking into the through aperture of the nozzle body.

* * * * *

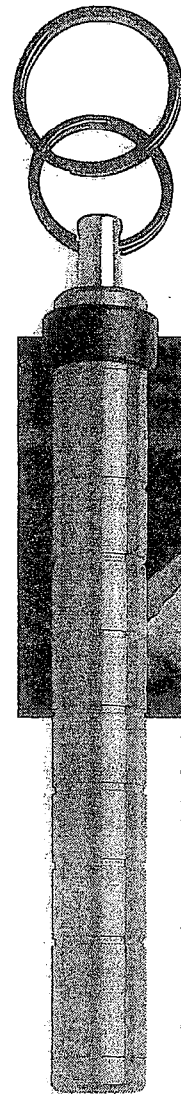


ANSP

KeyRing protection . . . the heat is on



The Safety (shown in the off position, ready to activate) is rapidly released.



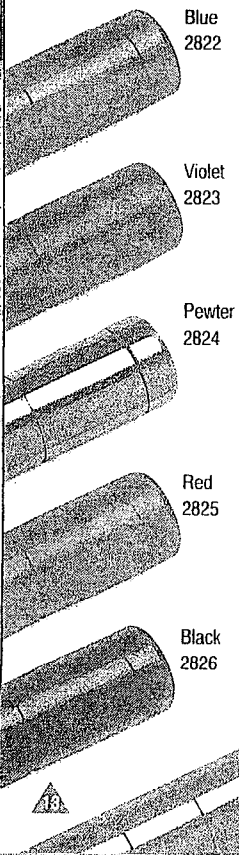
The Key Defender® is lightweight, low profile and easily carried. It provides Two Million Scoville Heat Units of Oleoresin Capsicum protection.



The Key Defender provides devastatingly effective aerosol security with an integral key flail backup.

Stainless Steel Actuators for the Key Defender (2796) and Stainless Swivels for the BreakAway® (2795) are optional.

Solid Brass and Stainless Detachables™ (2791, 2793) or Detachable KeyRings (2792, 2794) allow convenient separation of keys.



Blue
2822

Violet
2823

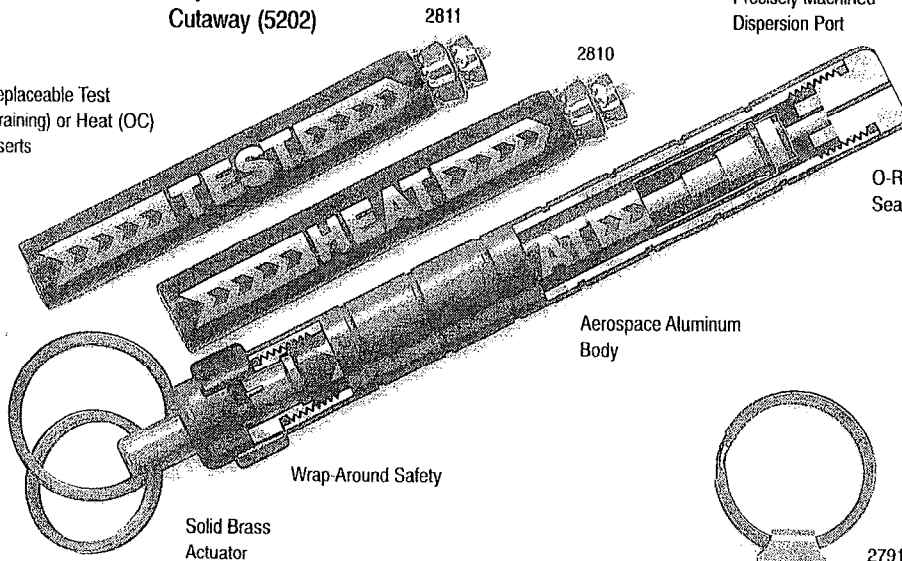
Pewter
2824

Red
2825

Black
2826

Key Defender
Cutaway (5202)

Replaceable Test
(Training) or Heat (OC)
Inserts



2811

2810

Precisely Machined
Dispersion Port

Aerospace Aluminum
Body

Wrap-Around Safety

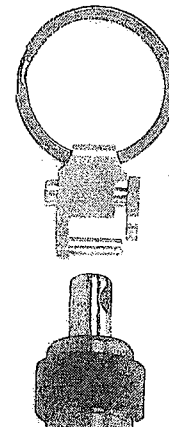
Solid Brass
Actuator

O-Ring
Sealed Tip

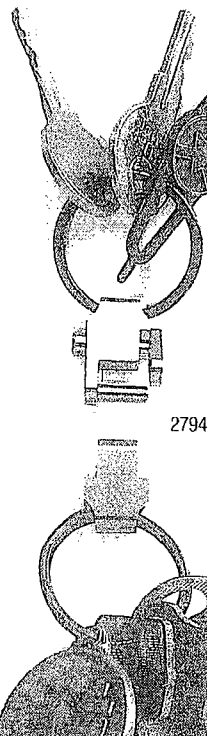
Electroless
2820

Textured
2832

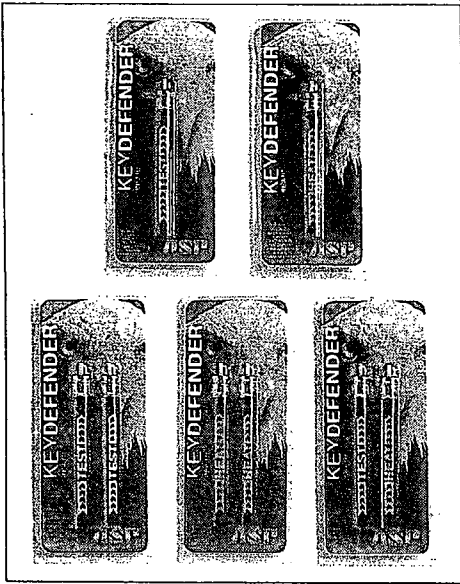
Gold
2829



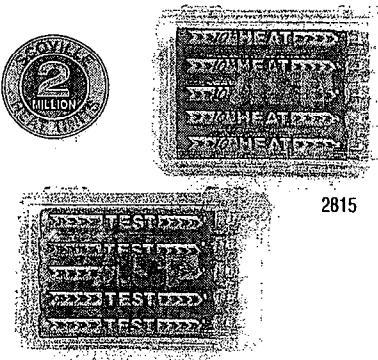
2791



2794



Test® (Training) and Heat® (OC) Inserts are replaceable. Developed by ASP, they are the world's smallest aerosol canisters.



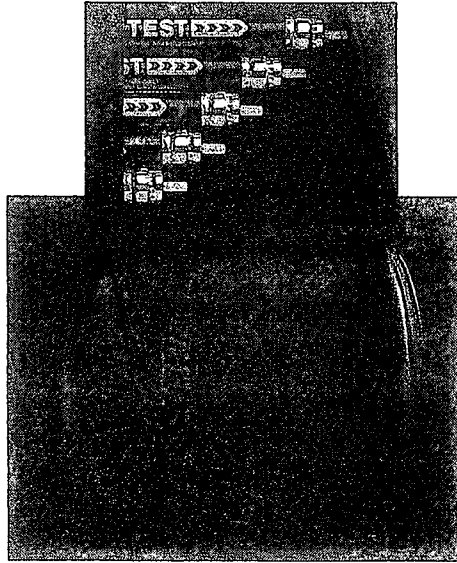
2815

2816

Straight line activation places a cone-shaped spray on target . . .

Inserts

Heat (OC)	2810
Test (Inert)	2811
Heat (OC) Twin Pak	2812
Test (Inert) Twin Pak	2813
Heat & Test Twin Pak	2814
Heat (OC) Ten Pak	2815
Test (Inert) Ten Pak	2816

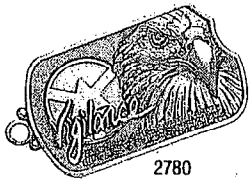


Spare Inserts may be carried in their own Custom Leather Case (2809).

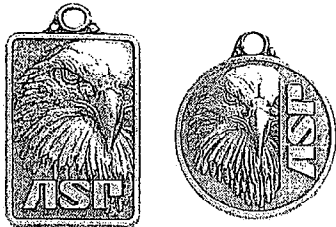


Devastatingly effective aerosol defense

Key Tags are available in jeweler's brass or nickel silver. They provide lifetime postage paid return of lost keys.

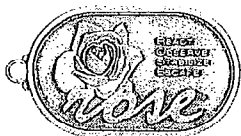


2780

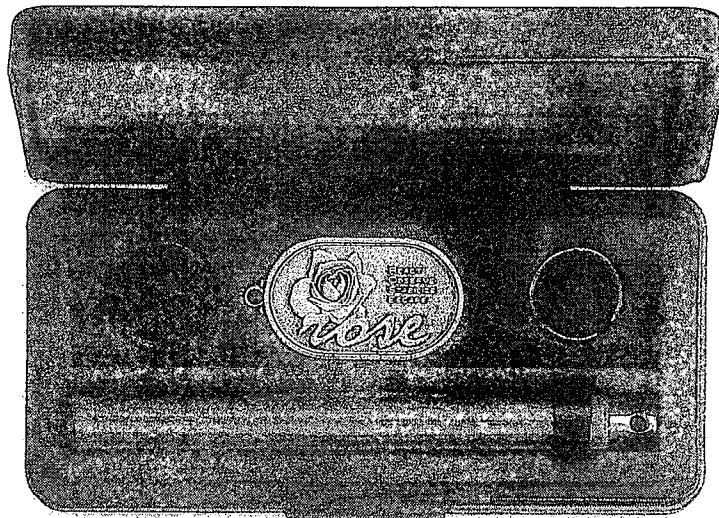


2786

2789



2783



Presentation Sets combine the Key Defender with a die struck Key Tag.

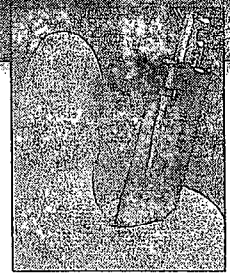
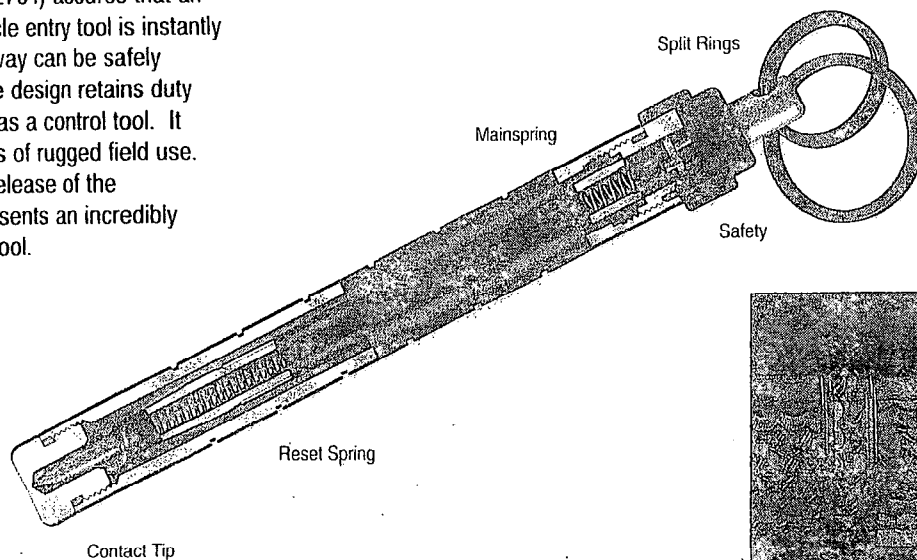
Key Tags	Brass	Nickel Silver	Key Defender-ROSE® Sets	Key Defender-Vigilance® Sets	
Vigilance	2780	2781	Blue	2842	
Eagle	2786	2787	Violet	2843	
ASP Eagle	2789	2790	Pewter	2844	
ROSE	2783	2784	Red	2845	
			Black	2846	
			Gold (18K)	2849	
				Electroless	2867
				Textured	2869



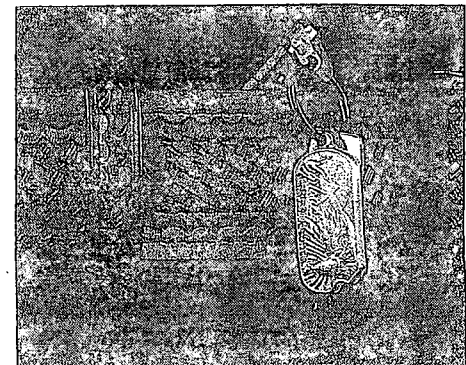
BreakAway . . . when seconds count



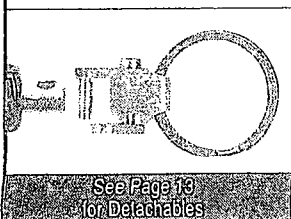
The ASP BreakAway® (2764) assures that an extremely efficient vehicle entry tool is instantly available. The BreakAway can be safely carried at all times. The design retains duty keys and may be used as a control tool. It will withstand long years of rugged field use. When seconds count, release of the wrap-around Safety presents an incredibly effective window entry tool.



Present the BreakAway by releasing the wrap-around Safety.



The ASP BreakAway is easily carried and readily at hand.



See Page 19
for Detachables



THE QUEST FOR
EXCELLENCE

"Strive for perfection
In everything
Take the best that exists
and make it better
If it doesn't exist, create it.
Accept nothing nearly right
or good enough."

St. Henry Royce
Co. Founder
Bells Row

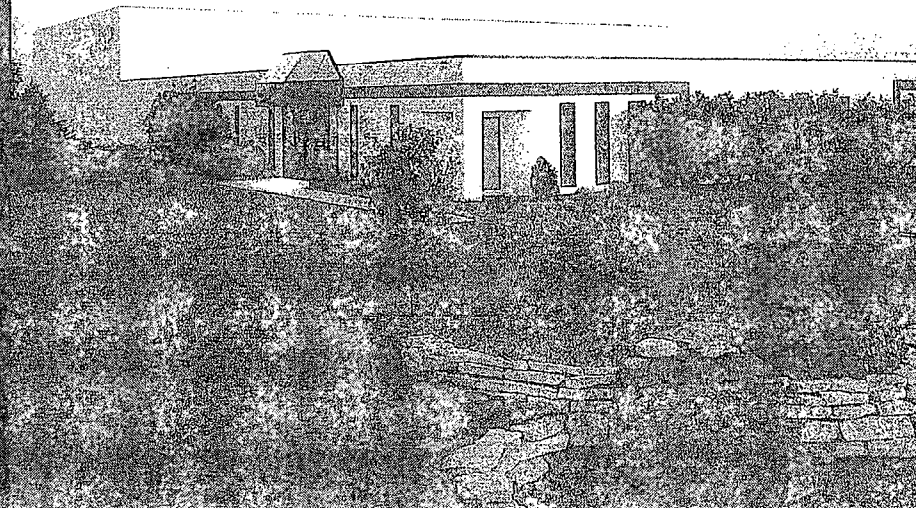


ARMAMENT SYSTEMS and PROCEDURES, INC

Box 1794, Appleton, WI 54913
Office (800) 236-6243 (920) 735-6242
FAX (800) 236-8601 (920) 735-6245

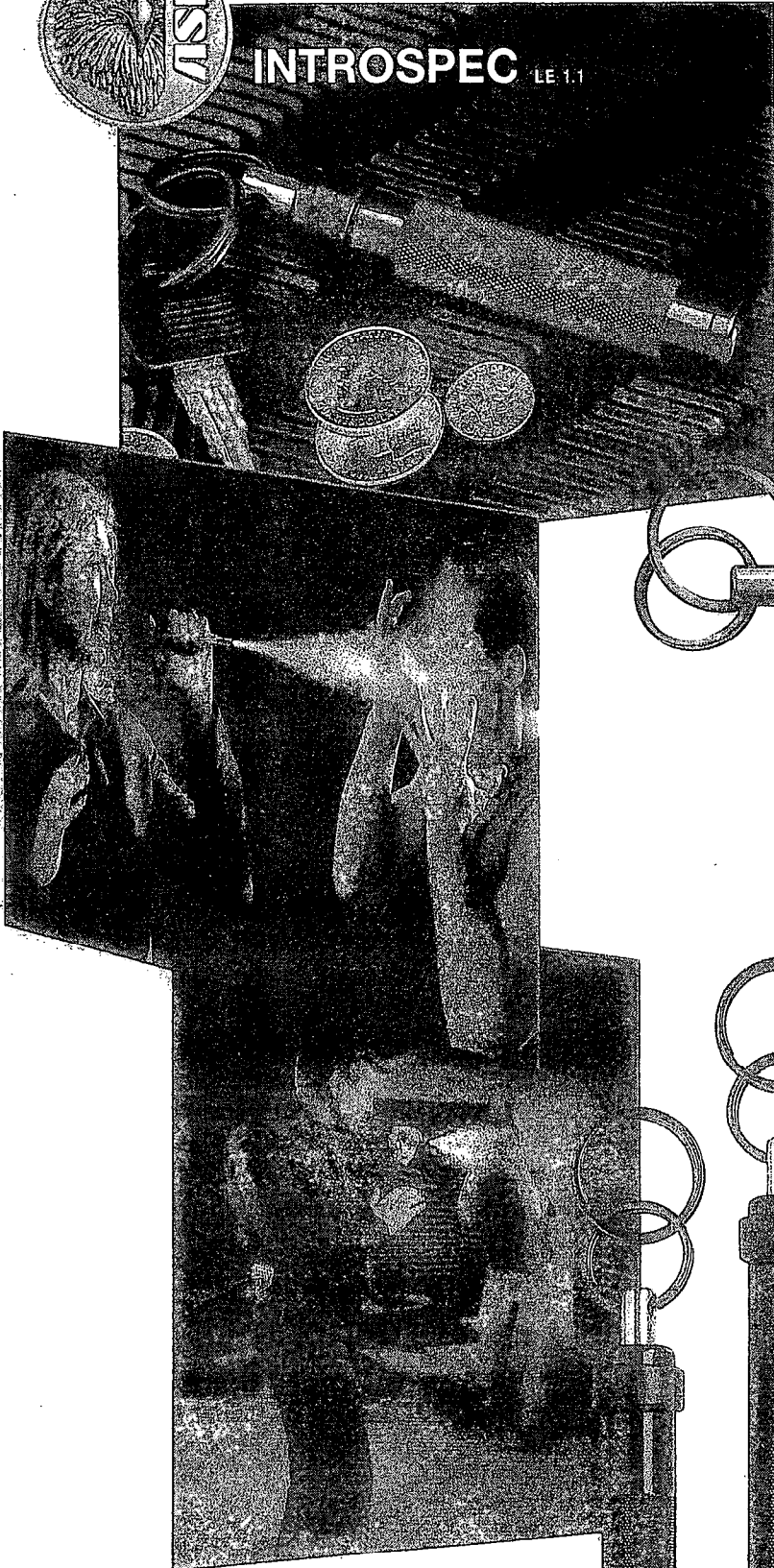
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AS&P Catalog - Number 10

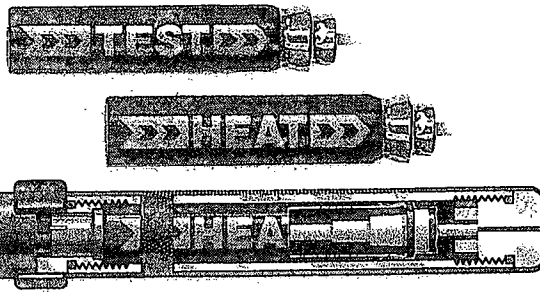




INTROSPEC LE 1.1



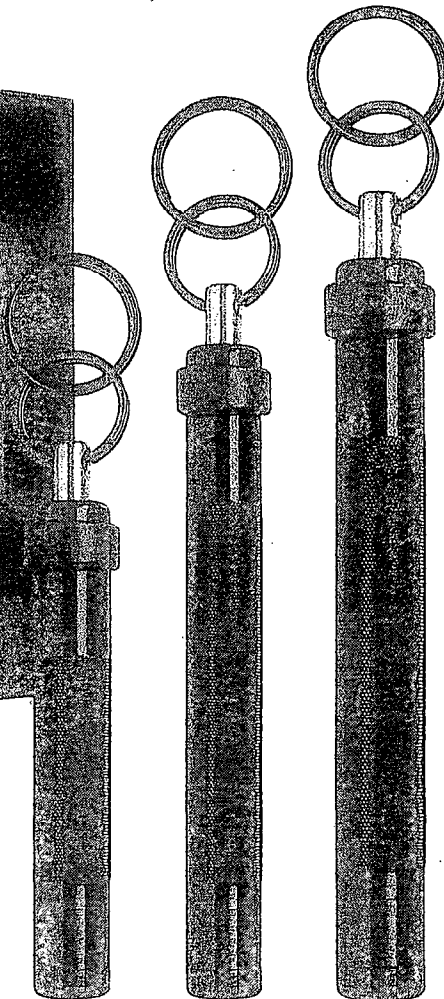
Palm Defender An extremely compact, anodized aluminum OC dispenser with replaceable aerosol inserts. Sized to conveniently fit the hand, pocket or keyring. Available in 10 colors.



A Powerful Line-Up Select the Palm Defender for discrete personal safety. The Key Defender provides increased capacity. The Street Defender is designed for duty use.

Clamshell Packaging

Retail	Palm Defender	\$25.00
	Key Defender	\$30.00
	Street Defender	\$40.00





DEFENDERS

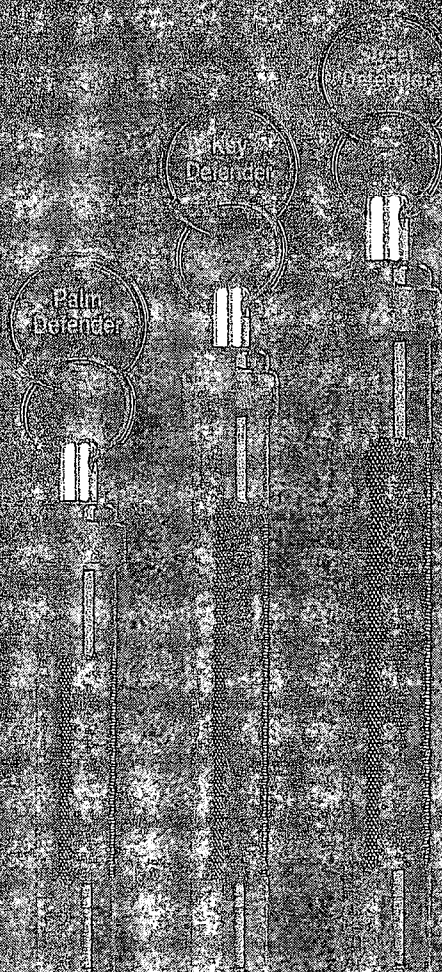
- Police Strength
- Low Profile
- Easily Carried
- Quick Firing



ASP products are designed to professional law enforcement standards. They have gained a worldwide reputation for performance. Now, this same precision technology has created a new generation of personal safety devices.

The ASP Defender Series is precision machined from high strength aerospace aluminum. Bright dip industrial anodizing is accented by an injection molded Delrin® safety. The solid brass keyring swivel retains two heat treated, black chrome plated split rings. Both the dispersion tip and retention cap are o-ring sealed. The safety is positive and secure. Release requires two distinct movements. Straight line activation places a cone-shaped spray on target... even in the dark. The result is a low profile, devastatingly effective aerosol dispenser.

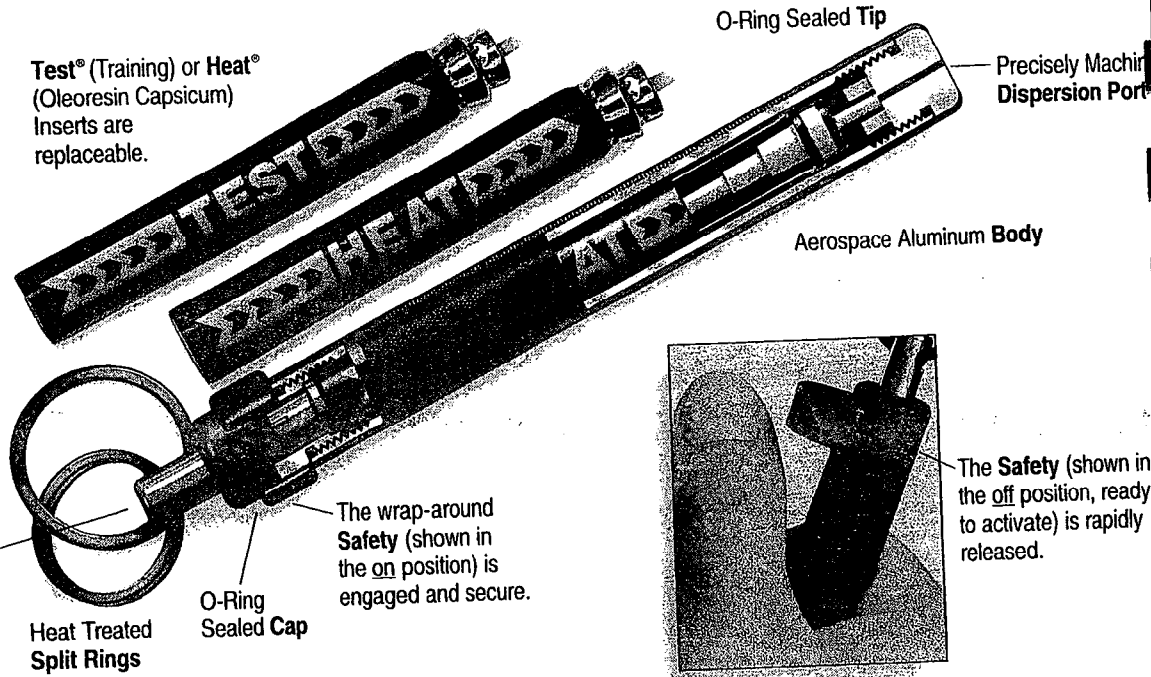
Each Defender combines the innovative design and unparalleled manufacturing expertise of ASP. O-ring sealed for integrity. Performance tested for function. Individually date coded for reliability. ASP Defenders are unmatched in function, durability or performance.



ASP Defenders . . . Your Key to Personal Safety



Select the Palm Defender™ for discrete personal safety. The Key Defender® provides increased capacity. The Street Defender™ is designed for duty use.



Solid Brass Actuator

Heat Treated Split Rings

O-Ring Sealed Cap

The wrap-around Safety (shown in the on position) is engaged and secure.

O-Ring Sealed Tip

Precisely Machined Dispersion Port

Aerospace Aluminum Body



The Safety (shown in the off position, ready to activate) is rapidly released.

Background

- Designed to professional law enforcement standards
- Aerospace aluminum construction
- Precision machined
- No sharp edges
- O-ring sealed
- Interchangeable components
- Replaceable aerosol inserts

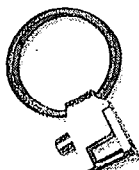
Specifications	Palm	Key	Street
Length	4.5"	5.75"	6.5"
Diameter	0.625"	0.625"	0.75"
Weight	1.8 ounces	2 ounces	3 ounces
System	Straight line activation		

Body

- 6061 T6 aerospace aluminum construction
- Fine line knurling
- Bright dip industrial anodizing
- Optional textured powdered paint finish
- Optional electroless nickel finish
- Optional 18K Gold finish
- Coated threads for durability
- Machined retention rings

Safety

- Extremely secure
- Rapidly released
- Stainless steel hinge pin
- Precision ground
- O-ring retained
- Replaceable safety
- Injection molded Delrin®
- Wrap-around design
- Positive activation blockage
- Non-engagement indication



Detachables allow convenient key separation.

Activation

- Keyring attachment
- Swivel design
- Solid brass actuator
- Requires two distinct movements to activate

Tip

- O-ring sealed
- Tapered stem seat
- Precision machined dispersion port

Cap

- O-ring sealed
- Blind hinge pin hole

Split Rings

- Progressively sized
- Extra heavy wire
- Heat treated for toughness
- Black chrome plated

Inserts

- Readily replaceable
- World's smallest aerosol can
- Seamless aluminum
- Impact extruded
- Precision spring valve
- Extra long ferrule
- Gasket sealed
- Horizontal discharge
- Cone-shaped dispersion
- Ink jet printed expiration date

Test

- Inert
- Training module

Key Tags are available in Fine Brass or Nickel Silver. They provide lifetime postage paid return of lost keys.



ASP
"Your Key to Personal Safety"

Heat

- Oleoresin Capsicum
- 2 Million Scoville Heat Units
- 10% formulation
- Optional custom formulations

Palm Defender Inserts

- 3 grams
- Three one-half second bursts
- Effective range three feet

Key Defender Inserts

- 5 grams
- Six one-half second bursts
- Effective range five feet

Street Defender Inserts

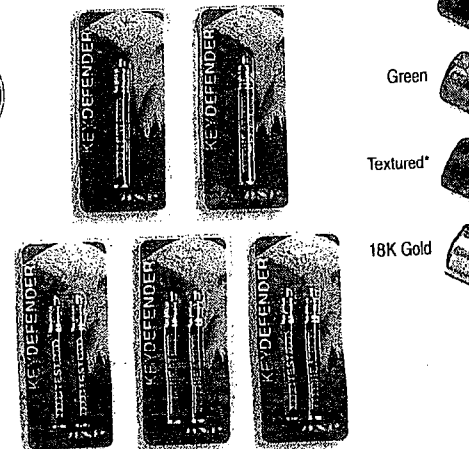
- 15 grams
- Thirty one-half second bursts
- Effective range ten feet

Repair

- Maintenance Kit

Warranty

- Limited Lifetime



Test® and Heat® Inserts are packaged in sales proven clamshell packaging. They are available in Single, Twin and Combination Paks.

Presentations . . . as Powerful as our Products



13W x 5D x 20H

Display 1310
Refill 1312



13W x 5D x 19H

Display 1311
Refill 1313

The Product . . . The ASP Key Defender® was designed by the nation's largest and most respected police use of force manufacturer. The precision aerosol dispenser is machined from aerospace alloys to exacting tolerances. Its key flail backup creates distance and deterrence. The ergonomic safety is rapidly released. Straight line activation places a cone-shaped spray on target . . . even in the dark. When seconds count, the Key Defender is in your hand, readily employed and devastatingly effective.

The Presentation . . . In your store, the Key Defender will sell itself. The dispenser, pepper spray Insert and custom split rings are distinctively blister carded. Twelve Key Defenders are packaged in each two-tier counter display. The assortment includes the most popular personal safety

colors: Black, Blue, Pewter, Red and Violet. A companion Display Pak of Key Defender Inserts assures repeat sales.

Color graphics tell the ASP story of technical achievement, defensive effectiveness and personal safety.

This is the most advanced personal safety device in the industry. It is shipped to you in a high-traffic, self-selling stand alone or wall mountable dispenser.



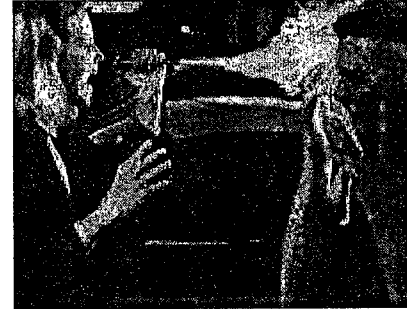
"Your Key To Personal Safety"

HOME
BLACKHAWK TACTICAL GEAR
HATCH TACTICAL GEAR
CASIO G SHOCK WATCHES
LUMINOX WATCHES
OTHER WATCHES
FLASHLIGHTS
KNIVES
FOOTWEAR & BOOTS
PEPPER SPRAY
HANDCUFFS
PELICAN CASES
LIGHTERS, CUTTERS, & FLASKS
GPS UNITS
RANGE & SHOOTING GEAR
ASP BATONS
HOLSTERS
WEAPON LIGHTS
EYEWEAR
MULTI-PURPOSE TOOLS
SAFARI/PHOTO VESTS
FAX ORDERS
RETURNS & QUESTIONS
MILITARY CUSTOMERS
UPS DELIVERY TIME MAP
ABOUT US...

SHOW ORDER
PRIVACY POLICY
INFO
SEARCH
INDEX
Y! SHOPPING



ASP Key Defender Pepper Spra



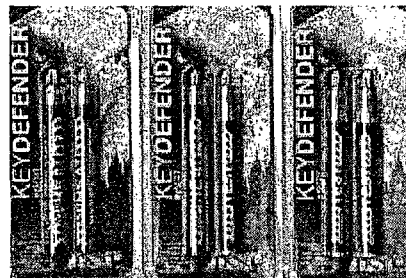
Pe
AS
do
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Ca
(C

spray), all it takes is a quick flick of the thumb to move the protective cap push of the end-cap button. This releases a mist of pepper spray toward assailant, enabling you to escape and obtain assistance. Includes a key so you won't forget it when you go out. A brilliant idea from the same person who gave you the ASP baton, ASP red gun, ASP Sapphire and Navigator lights, ASP vehicle breakaway tool.

BE SURE TO INDICATE THE COLOR OF THE BATON YOU WANT IN THE DOWN MENU.

Availability: Usually ships the same business day.

Retail price: \$33.99 Our price: \$29.99 BATON_COLOR:: BLUE



ASP Key Defender Pepper Spray (OC) (double pack)
\$12.99



[Home](#) [Search](#) [Product List](#) [Basket Contents](#)

[Checkout](#)

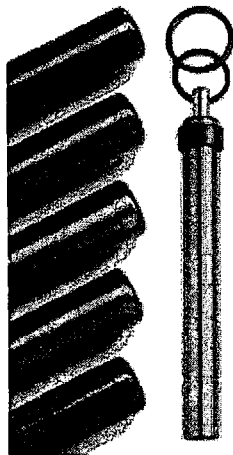
[Inactive link](#)

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"In the Cruiser" Accessories

- Badge Holders**
- Bags**
- BDU's**
- Body Armor**
- Duty Gear**
- Flashlights**
- Footwear**
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- Gloves**
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- Knives**
- Pants**
- Shirts**
- Shorts**
- Surplus**
- Sweaters**
- Tools**
- GST Home**

ASP OC Key Defender



Quantity in Basket: *none*

Code: **5282**

Price: **\$23.95**

Shipping Weight: **0.50 pounds**

- Please choose color:
- Blue
 - Black
 - Pewter
 - Red
 - Violet

Quantity:

Add To Basket

1-877-742-5478
Toll Free!
Mail

OC SPRAY MUST SHIP GROUND ASP Key Defender baton dispenses pepper spray and put complete protection in the palm of your hand. Protect yourself and the ones you love with this Key Defender baton. With just a push of your thumb, it delivers a burst of OC pepper spray. And, it's the only refillable key baton on the market! Baton fits easily on its own key ring, and features an O-ring sealed tip and safety switch. It's easy to use too! With the safety off, aim the baton and push your thumb into the end to release the spray. The baton delivers a cone shaped spray so you can hit your target - even in the dark. Weights .5ozs. Insert not included. OC Heat and Test (training) sold separately.



Home View Cart Store Info Site Map Link

Home > Pepper Spray > ASP Key Defender Pepper Spray

- Stun Guns
- Mace Defense Sprays
- Pepper Spray
- Home Protection
- Personal Alarms
- Child Safety
- Animal Repellents
- Safety Lights
- Spy & Surveillance
- Security Metal Detectors
- Tasers
- Diversion Safes
- Leatherman Tools
- Martial Arts / Weapons
- Self Defense Videos
- Pepper Spray FAQ
- Voice Changer FAQ
- Stun Gun Information
- Show Order
- Store Info & Policies
- Privacy Policy
- Site Map



ASP Key Defender Pepper Spray

The ASP Key Defender is a lightweight, low profile and easily carried keychain baton. It provides 2 Million Scoville Heat Units of Oleoresin Capsicum (pepper spray) protection at your fingertips! Made of durable aircraft grade aluminum for superior durability. The Key Defender also acts as a traditional kubaton, allowing you to hold the unit and jab the attacker or slash him with the keys. A Personal and Family Protection Must!

All models come with 1 Pack Heat(OC)insert. Heat(OC) inserts are replaceable. Inert traing insert are available.



Availability: Usually ships the next business day.

5282x Compare at: ~~\$29.95~~ Our price: **\$23.95**

Color: Blue 52822 Qty: 1



Key Defender Display Pack, Qty 12
 Twelve Key Defenders are packaged in each two-tier counter display. The assortment includes the most popular personal safety colors: Black, Blue, Pewter, Red and Violet.

Availability: Usually ships the next business day.

ASP11310 Compare at: ~~\$360.00~~ Our price:

\$245.00 Qty: 1



ASP Key Defender Heat Refill Use Heat (OC) Inserts to replace empty inserts in your ASP Key Defender. Available in single pack and twin pack.

Buy ASP Key Defender and get Heat Refill

Best Sellers



Talon Mini Stun Gur \$14.95



Wildfire 15% Pepper Spray \$4.95



Big Jammer Door Brar \$16.95



130db Personal Alarr \$5.95



Telescopic Steel Bato \$16.95



Bear Spray \$25.95

Insert at 20% off.

Availability: Usually ships the next business day.

ASP52810 \$6.95 Size: Single Pack

Qty: 1



Ultrasonic Dog Chaser
\$14.95

Sorry, no Pepper Spray orders to New York or Massachusetts.

Stun Guns | Mace Defensive Sprays | Pepper Spray | Home Alarms |
Child Safety | Personal Alarms | Safety Lights | Spy & Surveillance |
Hand Held Scanners | Diversion Safes | Animal Repellers | Air Tasers |
Martial Arts / Weapons | Pepper Spray FAQ | Stun Gun Information



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Applicant: Armament Systems and Procedures, Inc.
Mark: STYLIZED AND/OR DESIGN
Serial No.: 78/428,676
Trademark Examining Attorney: Barbara Rutland
Trademark Law Office 105

DECLARATION SUPPORTING ACQUIRED DISTINCTIVENESS

Dr. Kevin L. Parsons, Chairman and Chief Executive Officer of Applicant, Armament Systems and Procedures, Inc., makes the foregoing statement:

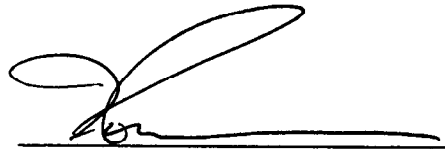
The above-identified mark has become distinctive of the goods being chemical agents for personal self-defense sold in aerosol dispensers through the Applicant's substantially exclusive and continuous use in interstate commerce, which began fourteen (14) years ago in 1991.

The attached chart details and summarizes the total sales of the goods since 1998:

YEAR	QUALITY TOTAL	TOTAL SALES
1998	25,393	\$365,659.00
1999	34,884	490,568.00
2000	44,457	653,808.00
2001	50,654	721,212.00
2002	45,908	654,936.00
2003	41,664	589,567.00
2004	35,159	495,774.00
2005	1,344	21,068.00

By virtue of the sales figures stated above, extensive advertising, duration to time the goods have flowed in the stream of interstate commerce and recognition by Applicant's customers, the Applicant strongly believes that the product packaging has become distinctive of the goods being chemical agents for personal self-defense sold in aerosol dispensers.

The undersigned being properly authorized and warned that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and that such willful false statements and the like may jeopardize the validity of the application or any registration resulting therefrom, declares that all statements made of his own knowledge are true; and that all statements made on information and belief are believed to be true.



Signed

Dr. Kevin L. Parsons
Printed Name

29 May 2005
Dated

Applicant: Armament Systems and Procedures, Inc.
Mark: STYLIZED AND/OR DESIGN
Serial No.: 78/428,676
Trademark Examining Attorney: Barbara Rutland
Trademark Law Office 105

SUBSTITUTE DECLARATION

Brett M. Tolpin, Attorney for and duly authorized by Armament Systems and Procedures, Inc., being warned that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and that such willful false statements and the like may jeopardize the validity of the application or any registration resulting there from, declares that he believes the Applicant to be the owner of the trademark sought to be registered, *that the configuration mark as pictured in the attached substitute specimen(s) is in use in commerce and was in use in commerce on or in connection with the goods listed in the application at least as early as the application filing date*, and that all statement made of his own knowledge are true and that all statements made on information and belief are believed to be true.



Signature

Brett M. Tolpin

Typed or Printed Name

6/22/05

Date



LAW ENFORCEMENT CATALOG



OC

KEYRING PROTECTION

The ASP Defender Series is precision machined from high strength aerospace aluminum. They are light weight, low profile, easily carried and devastatingly effective. Bright dip industrial anodizing is accented by an injection molded Delrin safety. The solid brass keyring swivel retains two heat treated, black chrome plated split rings. Both the dispersion tip and retention cap are o-ring sealed. The safety is positive and secure. Release requires two distinct movements. Straight line activation places a cone-shaped spray on target . . . even in the dark. It provides two million Scoville Heat Units of Oleoresin Capsicum protection from replaceable aerosol Inserts (see Page 25). Defenders are available in three sizes and a variety of finishes.



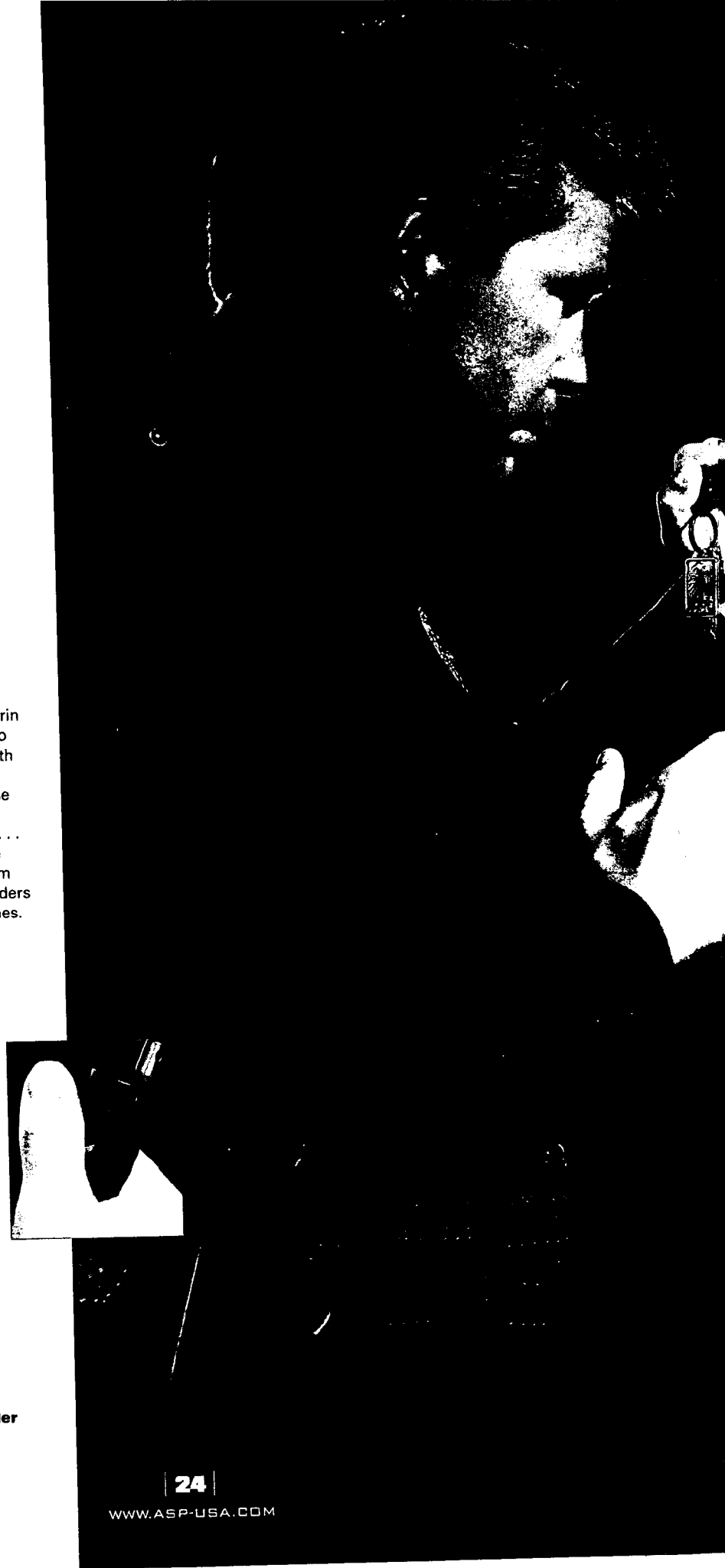
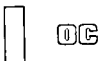
**Palm
Defender**
49 ___



**Key
Defender**
51 ___



**Street
Defender**
59 ___





Cutaway
5202

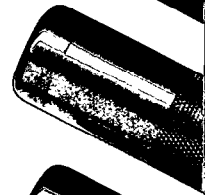
**DEFENDER
INSERTS**

	Heat	Test	Heat (Twin Pak)	Test (Twin Pak)	Heat & Test (Twin Pak)
Palm Defender	4910	4911	4912	4913	4914
Key Defender	5110	5111	5112	5113	5114
Street Defender	5910	5911	5912	5913	5914

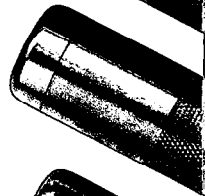
Blue
__ 50



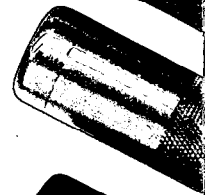
Violet
__ 51



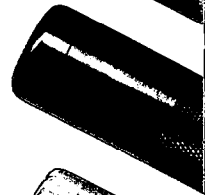
Pewter
__ 52



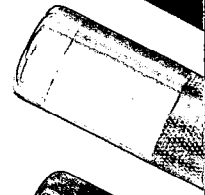
Red
__ 53



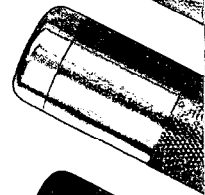
Black
__ 54



Gold
__ 55



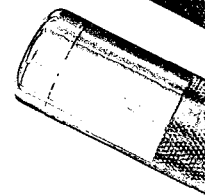
Electroless
__ 56



Textured
__ 57



18K Gold
__ 58



Product Code

To determine the product number of an ASP Defender, combine the first two numbers of the selected model from Page 24 with the last two numbers of the finish on Page 25.

THE QUEST FOR EXCELLENCE

"Strive for perfection in everything.
Take the best that exists and make it better.
If it doesn't exist, create it.
Accept nothing nearly right or good enough."

Sir Henry Royce
Co-Founder Rolls Royce



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www.asp-usa.com