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FRESNO COUNTY
SUPERIOR COURT

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FRESNO COUNTY SUPERIOR COURT
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FILED BY FAX

IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA

IN AND FOR THE COUNTY OF FRESNO

14 EDWARD W. HUNT, in his official
capacity as District Attorney of Fresno
15 County, and in his personal capacity as a
citizen and taxpayer, et al.,

16 Plaintiffs,

17 v.

18 STATE OF CALIFORNIA, et al.,

19 Defendants.
20

) CASE NO. 01CECG03182

) **PLAINTIFFS' EVIDENCE IN**
) **OPPOSITION TO DEFENDANTS'**
) **MOTION FOR SUMMARY JUDGMENT**
) **OR, ALTERNATIVELY, FOR SUMMARY**
) **ADJUDICATION ON PLAINTIFFS' FIRST**
) **AMENDED COMPLAINT**

21
22 1. Plaintiffs Edward W. Hunt, et al., hereby submit the following Evidence in
23 Opposition to Defendants' Motion for Summary Judgment, or Alternatively, for Summary
24 Adjudication on Plaintiffs' First Amended Complaint.

25 2. Declaration of Frederic A. Tulleners in Opposition to Defendants' Motion for
26 Summary Judgment, etc., and in Support of Plaintiffs' Motion for Summary Judgment, or in the
27 Alternative, Motion for Summary Adjudication.
28

1 3. Declaration of Don B. Kates in Opposition to Defendants' Motion for Summary
2 Judgment, etc. and in Support of Plaintiffs' Motion for Summary Judgment, or in the Alternative,
3 Summary Adjudication.

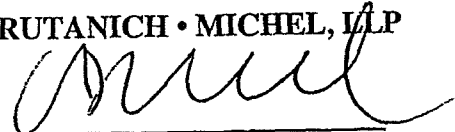
4 4. Declaration of Criminalist Torrey Johnson in Opposition to Defendants' Motion for
5 Summary Judgment, etc. and in Support of Plaintiffs' Motion for Summary Judgment, or in the
6 Alternative, Summary Adjudication.

7 5. Declaration of Jason Davis in Opposition to Defendants' Motion for Summary
8 Judgment, Etc. and in Support of Plaintiffs' Motion for Summary Judgment, or in the Alternative
9 Summary Adjudication.

10 6. Plaintiffs also rely upon evidence previously filed with the Court, as specified within
11 Plaintiffs' opposition papers filed herewith.

12 Date: January 8, 2007

TRUTANICH • MICHEL, LLP



C. D. Michel
Attorney for Plaintiffs'

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**DECLARATION OF FREDERIC A. TULLENERS IN OPPOSITION TO
DEFENDANTS' MOTION FOR SUMMARY JUDGMENT, ETC. AND IN SUPPORT OF
PLAINTIFFS' MOTION FOR SUMMARY JUDGMENT, OR IN THE ALTERNATIVE,
MOTION FOR SUMMARY ADJUDICATION**

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IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA
IN AND FOR THE COUNTY OF FRESNO

EDWARD W. HUNT, in his official
capacity as District Attorney of Fresno
County, and in his personal capacity as a
citizen and taxpayer, et al.,

Plaintiffs,

v.

STATE OF CALIFORNIA, et al.,

Defendants.

) CASE NO. 01CECG03182
)
) **DECLARATION OF FREDERIC A.**
) **TULLENERS IN OPPOSITION TO**
) **DEFENDANTS' MOTION FOR SUMMARY**
) **JUDGMENT, ETC. AND IN SUPPORT OF**
) **PLAINTIFFS' MOTION FOR SUMMARY**
) **JUDGMENT, OR IN THE ALTERNATIVE,**
) **MOTION FOR SUMMARY ADJUDICATION**

DECLARATION OF FREDERIC A. TULLENERS

I, Frederic A. Tulleners, declare and say that if called as a witness in this matter I could and would testify as follows, based upon my expertise in the area of firearms examination and identification.

[EXPERTISE]

1. I am currently the Director of the Graduate Forensic Science program at the University of California-Davis.
2. Until 2003, I was director of the California Department of Justice (CALDOJ) laboratories in Sacramento and Santa Rosa. For a short period before I left CALDOJ for U.C.-Davis, I was also director of the California Criminalistics Institute, a training center operated under CALDOJ. In total, I worked for CALDOJ in criminalistics, particularly in the area of firearms examination and identification, for 31 years. Before joining CALDOJ, I worked as a criminalist for the Los Angeles Police Department's Crime Laboratory.
3. For many years I also performed additional duties for CALDOJ as a legislative bill analyst reviewing and commenting on proposed legislation relating to firearms issues. During Attorney General Daniel Lungren's tenure, I was a member of the assault weapon committee that had been established to provide him the necessary technical knowledge with which to implement the 1989 California Assault Weapon Control Act ("AWCA").
4. I have a B.S. degree in physical chemistry from California State University at Los Angeles, and an M.A. degree in radiation and physical chemistry from the University of California at Irvine.

TESTIMONY REGARDING THE "FLASH SUPPRESSOR" ISSUE

5. I was a member of Attorney General Daniel Lungren's assault weapons group which oversaw the enactment of SB23. I was aware of the provision in SB23 that included a "flash suppressor" as one of the generic characteristics of an assault weapon. What that characteristic was intended to cover was actual flash suppressors designed and intended as such, not devices like muzzle brakes which were designed for other purposes, but also may or may not happen to unintentionally reduce flash in some degree. (All muzzle brakes will have the unintended effect of redirecting flash; whether they reduce flash can only be determined by actual scientific testing as discussed infra.)

6. I am informed that CALDOJ has issued a regulation, CCR § 12.8.978.20 (b), which defines "flash suppressor" as "any device designed, intended, or that functions to perceptibly reduce or redirect muzzle flash from the shooter's field of vision." The portion of that regulation reading "functions to perceptibly reduce or redirect muzzle flash from the shooter's field of vision" does not accord either with the common or technical understanding of what a flash suppressor is or with the intent of SB23 in listing "flash suppressor" as one of the characteristics of an assault weapon. To reiterate, the term "flash suppressor" means something designed and intended as such, not a device like a muzzle brake that was designed and intended for other purposes, but also may or may not unintentionally reduce flash in some degree.

7. I am informed that CALDOJ has submitted a declaration in this case from one Ignatius Chinn, a layman who claims expertise in firearms examination on the basis that he has been a police officer, has worked in a gun store, and has taken courses offered by pistol manufacturers. I am informed that in his Declaration, with regard to devices in or

on semi-automatic rifles, Mr. Chinn asserts that, "[D]epending on the device, [visual] inspection of the device may establish that it does not function to perceptibly reduce or redirect muzzle flash from the shooter's field of vision."

8. I note that in his statement Mr. Chinn fails to identify anyone capable of making such a determination from a visual inspection. It is uncertain whether Mr. Chinn believes himself capable of making such a determination by way of a visual inspection, only. But I must say that I could not determine from a visual inspection that a rifle or device will not reduce or redirect flash.

Neither could any other expert I know of. I have no idea how Mr. Chinn or anyone else could simply look at a rifle or device and determine that has no effect to reduce or redirect flash.

9. With the proper equipment it is possible to test for and measure the emission of light (flash) from the firing of a rifle. Determination of whether a device on or in a rifle reduces or redirects light is something that can only occur by actual scientific testing. It is a matter of scientific measurement, not something that can be "guestimated" by inspecting the device without firing it, or even by looking at it as it is fired.

10. The requisite test to determine this would occur more or less as follows. The firing of the rifle would be photographed both with, and then without, the subject device. Then the photographs or other light sensitive recording instruments would be used to perform a comparison of the two photos, with the aid of computers to quantify the lumens emitted in both testing scenarios. Only in this manner can it be determined whether the device has the effect of actually reducing, or redirecting, any light (flash) generated during discharge.

11. To conduct such testing requires special, unusual and extremely expensive equipment designed to measure light emissions. No ordinary or average person would have access to this equipment. The CALDOJ laboratory does not have such equipment or expertise nor (to my knowledge) does any other law enforcement laboratory in California.

12. Such determinations cannot be made by testing done with the naked eye. Among other problems, looking at the bright flash emitted by the first firing would compromise the eye's ability to evaluate and compare the second firing.

[VERIFICATION]

I certify and declare under penalty of perjury under the laws of the State of California that the foregoing is a true and correct statement of my personal and expert knowledge and is executed this 4 day of January, 2007 at the University of California in the City of Davis.


Frederic A. Tulleners

**DECLARATION OF DON B. KATES IN OPPOSITION TO DEFENDANTS' MOTION
FOR SUMMARY JUDGMENT, ETC. AND IN SUPPORT OF PLAINTIFFS' MOTION
FOR SUMMARY JUDGMENT, OR IN THE ALTERNATIVE, SUMMARY
ADJUDICATION**

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IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA
IN AND FOR THE COUNTY OF FRESNO

EDWARD W. HUNT, in his official
capacity as District Attorney of Fresno
County, and in his personal capacity as a
citizen and taxpayer, et al.,

Plaintiffs,

v.

STATE OF CALIFORNIA, et al.,

Defendants.

) CASE NO. 01CECG03182
)
) **DECLARATION OF DON B. KATES IN**
) **OPPOSITION TO DEFENDANTS' MOTION**
) **FOR SUMMARY JUDGMENT, ETC. AND IN**
) **SUPPORT OF PLAINTIFFS' MOTION FOR**
) **SUMMARY JUDGMENT, OR IN THE**
) **ALTERNATIVE, SUMMARY**
) **ADJUDICATION**
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DECLARATION OF DON B. KATES

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2 1. I, Don B. Kates, am a member of the California State Bar, and I am one of the
3 attorneys for Plaintiffs in this case. I declare and say that if called upon to do so, I could and
4 would testify as a witness to the truth of the following:

5 2. Defendants disagree with Plaintiffs' claim that the "flash suppressor" definition
6 violates due process since it is impossible for a layperson to determine whether a device on or in a
7 rifle has an unintended effect of reducing or redirecting flash. It is apparently Defendants' position
8 that in some, or many cases, a layperson can determine by visual inspection that a device on or in
9 a rifle barrel does, or does not, function to reduce or redirect flash. But this position is factually
10 unsupported by the only evidence Defendants offer — which is also factually contradicted by this
11 Declaration.

12 3. The only evidence Defendants offer to support their position is the following
13 statement from the Declaration of their "expert," Mr. Chinn: "Depending on the device, [visual]
14 inspection of the device may establish that it does not function to perceptibly reduce or redirect
15 muzzle flash from the shooter's field of vision." Mr. Chinn fails to identify anyone, including
16 himself, capable of making any such inspection. This makes his assertion irrelevant to the issues
17 here because due process requires that legislation be accessible to people of ordinary intelligence
18 and knowledge. Issuing a regulation written in Greek would not be satisfactory notice to the
19 general public of this state. Neither is a regulation requiring ordinary citizens to make
20 determinations requiring the knowledge, capabilities, skill and resources of an expert.

21 4. The only evidence Defendants submit, neither supports their position and Motion,
22 nor does it raise a triable issue of fact against Plaintiffs' evidence that the challenged portion of
23 the "flash suppressor" definition fails to provide due process notice.

24 5. Had Mr. Chinn's Declaration actually made the relevant, unequivocal assertion that
25 a layperson can determine from merely looking at a rifle, or device attached thereto (a "flash
26 suppressor"), and successfully determine it does, or does not reduce or redirect flash — his
27 assertion would be wrong.

28 6. It bears emphasis that Mr. Chinn offers no explanation regarding the visual

1 inspection, but I can say from my own knowledge that I am a layperson — and I have not the
2 vaguest notion of how I, or anyone else, would determine from looking at a rifle, whether it had
3 the capability, or contained a device that would, or would not, reduce or redirect flash.

4 7. If it were possible for a layperson to determine such a matter, I would be in a better
5 position than most laypersons to do so because I have owned rifles for more than five decades, I
6 have been involved in the shooting sports for more than five decades, I have been a sworn law
7 enforcement officer, and I am currently a columnist for a shooting magazine. But, to reiterate, I
8 have not the vaguest notion of how one could determine from looking at a rifle that it, or a device
9 on it, reduces or redirects flash.

10 [VERIFICATION]

11 I certify and declare under penalty of perjury under the laws of the State of California that
12 the foregoing is a true and correct statement of my personal knowledge and is executed this
13 — day of January, 2007 in Clark County, Washington.

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15 
16 DON B. KATES

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**DECLARATION OF CRIMINALIST TORREY D. JOHNSON IN OPPOSITION TO
DEFENDANTS' MOTION FOR SUMMARY JUDGMENT, ETC. AND IN SUPPORT OF
PLAINTIFFS' OPPOSITION TO DEFENDANTS' MOTION FOR SUMMARY
JUDGMENT, ETC.**

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IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA
IN AND FOR THE COUNTY OF FRESNO

EDWARD W. HUNT, in his official
capacity as District Attorney of Fresno
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citizen and taxpayer, et al.,

Plaintiffs,

v.

STATE OF CALIFORNIA, et al.,

Defendants.

) CASE NO. 01CECG03182
)
) **DECLARATION OF CRIMINALIST**
) **TORREY D. JOHNSON IN OPPOSITION TO**
) **DEFENDANTS' MOTION FOR SUMMARY**
) **JUDGMENT, ETC. AND IN SUPPORT OF**
) **PLAINTIFFS' OPPOSITION TO**
) **DEFENDANTS' MOTION FOR SUMMARY**
) **JUDGMENT, ETC.**

DECLARATION OF TORREY D. JOHNSON

specializing particularly in firearms examination. Since 1994, and to date, I have been, and currently am, employed in that capacity with the Las Vegas Metropolitan Police Department. My educational background is as follows: In 1969 I received a B.S. in chemistry from San Diego State University. In 1972, I received an M.S. in chemistry from San Diego State University.

2. During the 22-year period of 1973-1994 I was a criminalist with the California Department of Justice (DOJ) in various of its offices throughout California. In that capacity I performed general criminalistics, specializing particularly in firearms examination including the test-firing of firearms for various purposes. I acquired special experience with the testing of flash through a series of experiments concerning the amount and kind of flash that would be generated by firing firearms using multiple kinds of ammunition. These experiments were conducted by me and other DOJ laboratory employees over a period of several years in evaluating ammunition to be used by state agencies (principally the California Highway Patrol.)

3. My last four-and-a-half years with DOJ were spent as a Program Manager in its California Criminalistics Institute, training other criminalists, especially in firearms examination. I am a Distinguished Member of the Association of Firearms and Toolmark Examiners, and have been a member of the governing board of the International Wound Ballistics Association.

 **COPY**

TJ
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4. During my career I have been qualified as an expert, and as such I have testified

[POTENTIAL NUMBER OF DEVICES]

5. I am in possession of a CD by Jeffrey Reinke entitled "Muzzle Device Patents on CD Rom." This CD contains a collection of patents relating to gun barrels and devices to be placed on the muzzles of firearms. The compiler (Mr. Reinke) does not represent, nor do I, that the CD contains all the patents that have ever been filed for such devices, or that all the devices for all of the patents on the CD have actually been produced. Some of the patents are for devices that are expressly named "flash suppressor" or some similar term such as "Flash hider." Some of the devices are for use on shotguns. But a very large number of the devices intended to be placed on rifles do not have a name that corresponds to "flash suppressor" or "Flash hider." Attached hereto is the index listing the various patent names from the CD.

6. Based on this index and the CD from which it is taken, I estimate that dozens of different models of devices exist which, if attached to rifle muzzles, could reduce muzzle flash or divert it away from the shooter's eyes, even though the devices were not intended to have any such effects. Each of these models are potentially "flash suppressors" under the portion of CALDOJ's regulation which defines that phrase as anything that reduces or diverts flash even though not designed nor intended to do so. The only way to determine whether they do or do not have such unintended effects would be through actual scientific testing wherein one would

cd
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produce photographs of the light emissions from firing a rifle with, and then without, the device,

is employed by the California Department of Justice (CALDOJ), has executed a declaration asserting that, "[D]epending on the device, [visual] inspection of the device may establish that it does not function to perceptibly reduce or redirect muzzle flash from the shooter's field of vision." Mr. Chinn's Declaration fails to explain how anyone could make that determination by merely looking at a device, nor does it identify anyone who has ever made such a determination in that manner; nor does the Declaration name any device that has been so identified.

8. I am aware that Fred Tulleners, the Director of the Graduate Forensic Science program at the University of California-Davis, has executed a declaration that contradicts Mr. Chinn's visual examination assertion. I concur with Mr. Tulleners in that I could not simply look at a device on a rifle and determine whether it reduces or redirects flash, and I do not know of anyone, including any *actual* expert, who could.

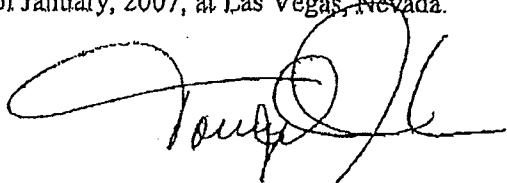
9. The typical rifle owner in California is a sportsman such as a hunter or target shooter. As such, it is extremely unlikely, if not impossible, for the typical California rifle owner to own or even have access to the highly specialized and expensive equipment one would need in order to scientifically measure light emitted by a rifle. The same is true of the makers of muzzle breaks and similar devices who, in manufacturing their devices, have no intention for the devices to reduce or divert flash, so they also do not have the extremely expensive scientific instruments

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necessary to photograph flash and to measure it. And they have no alternative method of

(VERIFICATION)

I certify and declare under penalty of perjury under the laws of the State of California that the foregoing is a true and correct statement of my personal knowledge. Executed this 8th day of January, 2007, at Las Vegas, Nevada.

A handwritten signature in black ink, appearing to read "Tareq D. Johnson". The signature is stylized with a large loop at the beginning and a long horizontal stroke at the end.

Tareq D. Johnson

Introduction

This CDROM is the second in a series of firearms patent technical reference libraries. There are 481 patents on this CDROM, covering the time frame from 1869 to 2005! To understand how there could be this many recoil and flash suppression patents, one must understand the patent classification system. Patents are granted and recorded in a primary classification group, but may be assigned supplementary classification if elements of the design apply to different classification fields. That being said, there are 265 of the patents are for muzzle brakes, compensators and recoil checks for handguns, rifles and machineguns. There are 33 patents for flash suppressors, and there are 182 patents that apply to recoil and shot control for shotguns.

The menu is in patent number order and is color coordinated to correspond to the type of patent. Red colored patents are muzzle brakes, recoil compensators, stabilizers and a few miscellaneous items. Green colored patents are for flash suppressors and blue colored patents are for shotgun recoil and choke attachments. (For those of you who are color blind, the codes R, G, B, represent the fore mentioned colors respectively.) Many patents claim both recoil and flash suppression, I color coded these based on the first claim made in the patent title line.

To the best of my knowledge, this CDROM includes all of the U.S. patents that deal with recoil, flash suppression and shotguns as of 26 Nov 2005. I would have loved to have included all of the foreign patents as well, but that would have been too cost prohibitive and time consuming. Not to mention the fact that in order to be of use to anyone they would have to have been translated into English.

Unlike my previous CDROM on Silencers where I had numerous books that I used for my initial references, the contents of this disk are based solely on patent classification category searches of the entire patent data base from 1790 to the present.

As I stated in the first paragraph, as one looks at a patent, one discovers that patents are grouped or cataloged by the class or category of the field of study that the invention relates to. In the case of recoil, flash suppression and shotguns, I searched for patents in two main categories: 42, Firearms and 89, Ordnance. Below are listed those categories, with their sub-categories, that I searched for patents:

42/79 Gun muzzle construction or muzzle attachments designed to prevent the shot scattering when the charge leaves the barrel

89/14.05 Barrels: Device comprising a tubular structure through which a projectile is fired.

89/14.2 Flash shield: Subject matter which reduce the sudden flame at the end of the barrel when a gun is fired.

89/14.3 Recoil absorbers and climb arrestors: Subject matter where the rearward and/or upward motion of the barrel caused by firing the barrel is reduced.

A classification search on each of these classification fields for the years between 1790 and 2005 provides the following results:

42/79: 221 patents

89/14.2: 96 patents

89/14.3: 429 patents

The patents on this CDROM are a result of screening all of the above patents in each category.

I hope this CDROM will entertain and enlighten you. Please note that some of the patents on this disk claim a sound reduction attribute and as such, may be classified as silencers. It is illegal to manufacture or possess firearm silencers without prior licensing from the Bureau of Alcohol, Tobacco, and Firearms (BATE).

Jeffry Reinke
CW4, USA, Retired
26 November 2005

CODE	PATENT#	DATE	TITLE	INVENTOR
			INTRODUCTION - PLEASE READ!	
B	14,597	04/08/56	IMPROVEMENT IN SHOTGUNS	BUCKEL, ET AL.
R	37,193	12/16/62	RIFLING FIRE ARMS	ALSOP, CHARLES R.
B	79,861	07/14/68	DETACHABLE MUZZLE FOR SHOT GUNS	ROPER, SYLVESTER H.
B	84,942	12/15/68	MUZZLE FOR SHOT GUNS	FRY, JOHN
B	85,949	01/19/69	MUZZLE FOR SHOTGUN	McKENZIE, JAMES A.
B	115,370	05/30/71	IMPROVEMENT IN SHOT-GUNS	SMITH, DEXTER
R	118,933	09/12/71	IMPROVEMENT IN RECOIL-OBVIATOR FOR ORDNANCE	HAWLEY, SAMUAL F.
R	122,187	12/26/71	IMPROVEMENT IN GUN BARRELS	MOORE, RENSELAER
B	161,300	03/23/75	BARREL FOR SHOT-GUNS	FUBBS, JOEL B.
R	264,361	09/12/82	GUN BARREL	STEVENS, ROBERT L.
R	329,303	10/27/85	GUN BARREL	FOSBERRY, GEORGE V.
R	430,214	06/17/90	RECOIL CHECK FOR ORDNANCE	MAXIM, HIRAM S.
B	555,432	02/25/96	CHOKE ATTACHMENT FOR GUNS	CORY, RANDOLPH P.
B	559,550	05/05/96	GUN BARREL	TITTMANN, FRANZ
B	579,502	03/23/97	MUZZLE ATTACHMENT FOR SCATTERING SHOT	STABERG, CHARLES J.
R	587,801	08/10/97	GUN BARREL	DURNFORD, CHARLES D.
R	592,437	10/26/97	GUN BARREL	OBERHAMMER, PETER
B	618,901	02/07/99	GUN BARREL	PETERSON, LEWIS
B	633,428	09/19/99	CHOKE BORE ATTACHMENT FOR GUNS	CORY, RANDOLPH P.
B	653,613	07/10/00	CHOKE ATTACHMENT FOR GUN BARRELS	BROYLES, JAMES C.
B	685,669	10/29/01	CHOKE ATTACHMENT FOR GUN BARRELS	BROYLES, JAMES C.
B	688,227	12/03/01	DETACHABLE CHOKE PIECE	CORY, RANDOLPH P.
B	688,389	12/10/01	CHOKE ATTACHMENT FOR GUNS	CORY, RANDOLPH P.
R	715,278	12/09/02	RECOIL CHECK FOR ORDNANCE	LOEBEN, GUSTAVE A.
R	743,042	11/03/03	RECOIL MINIMIZER FOR FIREARMS	SIMPSON, WILLIAM S.
R	749,215	01/12/04	MEANS FOR CONTROLLING THE RECOIL IN GUNS	McCLEAN, SAMUEL M.
R	785,972	03/28/05	MEANS FOR PREVENTING RECOIL OF GUNS	McCLEAN, SAMUEL M.
R	785,973	03/28/05	DEVICE FOR COUNTERACTING RECOIL IN GUNS	McCLEAN, SAMUEL M.
R	785,974	03/28/05	GAS OPERATED GUN	McCLEAN, SAMUEL M.
R	785,975	03/28/05	MEANS FOR CONTROLLING THE RECOIL AND MUZZLE BLAST OF...	McCLEAN, SAMUEL M.
R	786,230	03/28/05	RECOIL CONTROLLING MEANS FOR GUNS	McCLEAN, SAMUEL M.
B	797,345	08/15/05	SHOTGUN	COKEROFT, FRANK H.
B	808,203	12/26/05	GUN BARREL	JOHNSON, OLE
R	811,595	02/06/06	GAS OPERATED MECHANISM FOR FIREARMS	TAYLOR, CECIL H.
R	812,140	02/06/06	GUN BARREL FOR PISTOLS, RIFLES AND ORDNANCE	KENT, PERRY E.
R	817,134	03/03/06	GUN	SMITH, MORRIS F.

CODE	PATENT#	DATE	TITLE	INVENTOR
R	827,259	07/31/06	DISCHARGE ACTUATED GUN	MCCLEAN, SAMUEL M.
B	827,844	08/07/06	GUN BARREL	BELLAMY, CHARLES R.
B	833,484	10/16/06	GUN BARREL FOR SHOTGUNS	ROBEDEE, WILLIAM L.
B	847,911	03/19/07	CHOKE ATTACHMENT FOR GUNS	CORY, RANDOLPH P.
B	863,431	08/13/07	GUN BARREL	PARKER, THOMAS A.
B	906,443	12/08/08	ATTACHMENT FOR SHOTGUNS	MICHAUD, ONESIME E.
B	918,784	04/20/09	CHOKE ATTACHMENT FOR SHOTGUNS	SNOW, ORRIE B.
B	927,572	07/13/09	ATTACHMENT FOR SHOTGUNS	MICHAUD, ONESIME E.
B	927,573	07/13/09	SHOTGUN	MICHAUD, ONESIME E.
B	966,389	08/09/10	ATTACHMENT FOR SHOTGUNS	DEVOL, DAVID E.
B	968,583	08/30/10	ATTACHMENT FOR SHOTGUNS	MICHAUD, ONESIME E.
R	968,678	08/30/10	GUN	MCCLEAN, SAMUEL M.
B	985,308	02/28/11	FIREARM	VAN VOORHIS, JESSE O.
B	1,013,974	01/09/12	SHOTGUN BARREL	VAN DEN BOSSCHE, PETER F.
B	1,089,403	03/10/14	SHOTGUN BARREL ATTACHMENT	EHRLER, CHARLES
R	1,174,165	03/07/16	FIREARM	KINNEY, CHARLES H.
R	1,190,107	07/04/16	FIREARM	CARROLL, JOHN W.
R	1,227,164	05/22/17	RECOIL REDUCING MEANS FOR GUNS	LEHMANN & HORNBERG
R	1,227,897	05/29/17	AUTOMATIC GUN	DUNWOODY, HENRY H. C.
B	1,227,987	05/29/17	SHOT SPREADING DEVICE FOR GUN MUZZLES	WRIGHT, JAMES E.
G	1,242,843	10/09/17	FLASH ABSORBER ATTACHMENT FOR MACHINE GUNS	NORTHOVER, HARRY R.
B	1,266,087	05/14/18	GUN ATTACHMENT	WILLIAMS, RICHARD M.
G	1,283,465	11/05/18	COMBINED MUZZLE FLASH HIDER AND BAYONET MOUNT FOR...	BURTON, FRANK F.
R	1,326,213	12/30/19	BREECH LOADING ORDNANCE	NORTH, THOMAS K.
R	1,327,897	01/13/20	GUN	BLADWIN, ARTHUR S.
R	1,333,402	03/09/20	ARRANGEMENT FOR DEADENING THE RECOIL OF FIREARMS	GALLIOT & BORY
R	1,333,403	03/09/20	RECOIL ABSORBING DEVICE FOR FIREARMS	GALLIOT & BORY
G	1,339,614	05/11/20	FLASH ABSORBER FOR MACHINE GUNS	WOKEN, ELFON P.
G	1,342,978	06/08/20	FLASH AND RECOIL REDUCER FOR FIREARMS	YOUNG, FREDERICK W.
B	1,348,750	08/03/20	CHOKE ATTACHMENT FOR SHOTGUNS	SCHUSTER, FRANCIS X.
B	1,351,309	03/31/20	GUN BARREL	THISTLETHWAIT, ARTHUR W.
G	1,351,960	09/07/20	FLASH ELIMINATOR	MOYERS, OSCAR C.
R	1,363,058	12/21/20	APPARATUS FOR DEMINISHING THE RECOIL OF GUNS	SCHNEIDER, EUGENE
B	1,369,085	02/22/21	ACCURACY ATTACHMENT FOR FIREARMS	CRAIG, ALVIN M.
R	1,380,171	05/31/21	ORDNANCE	ABBOT, CHARLES G.
R	1,390,447	09/13/21	GUN BARREL MUZZLE STEADIER	JOHNSTON, MILLARD L.
R	1,390,658	09/13/21	RECOIL NEUTRALIZER AND MUFFLER	TOWSON, RICHARD M.

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R	1,413,903	04/25/22	GUN	CZEGKA, VICTOR H.
G	1,415,919	05/16/22	FLASH HIDER AND RECOIL ABSORBER	BUTLER & FOWLER
R	1,429,619	09/19/22	RECOIL CHECK	NELSON, CHARLES A.
R	1,435,084	07/11/22	APPARATUS FOR REDUCING THE LENGTH OF RECOIL IN GUNS	SCHNEIDER, EUGENE
B	1,455,661	05/15/23	CHOKE FOR SHOTGUNS	RHINEHART, EDWARD L.
G	1,487,312	03/18/24	FLASH HIDER	BULL, WILLIAM R.
R	1,502,558	07/22/24	RECOIL ABSORBING MEANS FOR FIREARMS	GALLIOT, NORBERT J.A.
R	1,508,605	09/16/24	GUN CONSTRUCTION	LEGETT, ET AL.
G	1,538,243	05/19/25	COMBINED BARREL SUPPORT AND FLASH HIDER FOR GUNS	GORTON, WALTER T.
R	1,555,026	09/29/25	MUZZLE BRAKE	ROSE, JOHN B.
R	1,557,820	10/20/25	BLAST TUBE FOR MACHINE GUNS	FLETCHER, WALLACE R.
R	1,598,360	08/31/26	VARIABLE AND LOW MUZZLE PRESSURE GUN	PAVEK, WILLIAM J.
R	1,605,393	11/02/26	CLIMB ARRESTOR	CUTTS, RICHARD M.
B	1,605,741	11/02/26	GUN BARREL	JONE, LAWRENCE B.
R	1,628,896	05/17/27	GUN BARREL	MEDEARIS, COLUMBUS L.
R	1,636,357	07/19/27	ARTICULATING DEVICE	CUTTS, RICHARD M.
B	1,679,048	07/31/28	DETACHABLE CHOKE PIECE	MILLER, RANCE W.
R	1,738,754	12/10/29	AUTOMATIC PISTOL	BLUEHDORN, WILLIAM R.
R	1,770,474	07/15/30	MUZZLE ATTACHMENT FOR GUNS	HATCHER, JAMES L.
R	1,773,260	08/19/30	COMPENSATOR DEVICE	CUTTS, RICHARD M.
R	1,786,207	12/23/30	MACHINE GUN	HUDSON, ROBERT F.
R	1,801,258	04/21/31	COMPENSATOR DEVICE FOR ORDNANCE	BARKER, MAURICE E.
B	1,858,560	05/17/32	SHOTGUN	ROSENSTIEL, RALPH B.
R	1,860,276	05/24/32	FIREARM	DE LUCE, ET AL.
B	1,892,522	12/27/32	ADJUSTABLE GUN CHOKE AND METHOD OF CONSTRUCTING THE	WHITE, EZEKIAL F.
R	1,904,138	05/14/33	MUZZLE BRAKE AND GAS COLLECTOR	BARNES, GLADEON M.
R	1,939,700	12/19/33	MUZZLE ATTACHMENT FOR GUNS	HOFSTETTER, CLARENCE F.
R	1,948,496	02/27/34	MUZZLE BRAKE FOR GUNS	BARNES, GLADEON M.
R	1,994,458	03/19/35	MUZZLE BRAKE FOR GUNS	BARNES, GLADEON M.
G	2,010,178	08/06/35	FLASH ELIMINATOR FOR GUNS	DE BRUIN, GERRIT
B	2,054,132	09/15/36	SHOTGUN BARREL	LEWIS, GEORGE S.
R	2,065,273	12/22/36	RECOIL ABSORBING DEVICE FOR FIREARMS	GALLIOT, NORBERT J.A.
R	2,088,380	07/27/37	MUZZLE RECOIL CHECK FOR GUNS	METHLIN, NICOLAS E.
B	2,092,649	09/07/37	AUTOMATIC CHOKE FOR GUNS	JUNG, WALTER M.
B	2,098,617	11/09/37	SPREADER TUBE	CUTTS, RICHARD M.
R	2,101,063	12/07/37	MUZZLE ATTACHMENT FOR GUNS	GREEN, SAMUEL G.
R	2,101,848	12/14/37	STABILIZER FOR GUNS	GREEN, SAMUEL G.

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R	2,101,849	12/14/37	MUZZLE ATTACHMENT FOR GUNS	GREEN, SAMUEL G.
R	2,101,850	12/14/37	MUZZLE ATTACHMENT FOR GUNS	GREEN, SAMUEL G.
B	2,102,931	12/21/37	ADJUSTABLE GUN CHOKE	WHITE, EZEKIAL F.
R	2,112,831	05/05/38	COMPENSATOR FOR ORDNANCE	CUTTS, RICHARD M.
R	2,128,936	09/06/38	MUZZLE ATTACHMENT FOR GUNS	GREEN, SAMUEL G.
B	2,134,238	10/25/38	VARIABLE CHOKE FOR SHOTGUNS	SEDBERRY, WILLIAM H.
B	RE20,958	12/27/38	ADJUSTABLE GUN CHOKE	WHITE, EZEKIAL F.
R	2,143,596	01/10/39	RECOIL ABSORBOR FOR FIREARMS	GALLIOT, ET AL.
R	2,150,161	03/14/39	MUZZLE ATTACHMENT FOR GUNS	GREEN, SAMUEL G.
B	2,153,246	04/04/39	ADJUSTABLE CHOKE FOR SHOTGUNS	GIBSON, CLYDE M.
R	2,165,457	07/11/39	COMPENSATOR	CUTTS, RICHARD M.
B	2,167,173	07/25/39	SHOTGUN BARREL	FLEMING, HARVEY
R	2,184,301	12/01/39	STABILIZING DEVICE	HUGHES, ROBERT H.S.
R	2,184,595	12/26/39	RECOIL CONTROL OF FIREARMS	HUGHES, ROBERT H.S.
R	2,191,484	02/27/40	DEVICE FOR VARYING THE AMOUNT OF RECOIL IN FIREARMS	HUGHES, ROBERT H.S.
R	2,191,648	02/27/40	RECOIL ABSORBER FOR FIREARMS	GALLIOT, ET AL.
R	2,192,081	02/27/40	DEVICE FOR RECOIL CONTROL	HUGHES, ROBERT H.S.
R	2,206,567	07/02/40	APPARATUS FOR CONTROLLING RECOIL	HUGHES, ROBERT H.S.
R	2,206,568	07/02/40	RECOIL CONTROL DEVICE	HUGHES, ROBERT H.S.
R	2,212,683	08/27/40	CONTROL OF RECOIL	HUGHES, ROBERT H.S.
R	2,212,684	08/27/40	RECOIL CONTROLLING DEVICE	HUGHES, ROBERT H.S.
R	2,212,685	08/27/40	CONTROL DEVICE FOR CONTROL OF RECOIL	HUGHES, ROBERT H.S.
R	2,212,686	08/27/40	RECOIL CONTRUCTION	HUGHES, ROBERT H.S.
R	2,223,014	11/26/40	RECOIL ABSORBOR FOR FIREARMS	GALLIOT, ET AL.
B	2,270,592	01/20/42	AUTOMATIC CHOKE FOR GUN BARRELS	KITZMILLER, JAMES H.
R	2,274,239	02/24/42	RECOIL DEVICE	HUGHES, ROBERT H.S.
B	2,306,176	12/22/42	CHOKE FOR GUNS	MATHIS, WILLIAM F.
R	2,313,669	03/09/43	COMPENSATOR FOR AUTOMATIC FIREARMS	REISING, EUGENE G.
R	2,322,370	06/22/43	LIFT COMPENSATOR FOR FIREARMS	LANGE, ROBERT C.
B	2,335,138	11/23/43	BARREL CHOKE MEANS	WHITE, EZEKIAL F.
G	2,339,777	07/08/42	FLASH HIDER	GREEN, SAMUEL G.
B	2,340,821	02/01/44	SHOT SPREADING DEVICE	RUSSELL, CHARLES E.
R	2,348,114	05/02/44	GUN STABILIZER	DOW, ALVA M.
R	2,351,037	06/13/44	STABILIZER FOR GUNS	GREEN, SAMUEL G.
G	2,356,728	08/22/44	FLASH HIDER	REISING, EUGENE G.
R	2,360,724	10/17/44	METHOD FOR MAKING MUZZLE SLEEVES	SCHOLTZ, ET AL.
R	2,362,996	11/21/44	RECOIL CHECK AND BARREL ACCELERATOR FOR AUTOMATIC	GREEN, SAMUEL G.

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B	2,372,315	03/27/45	ANTIRECOIL DEVICE FOR FIREARMS	CATRON, RUSSELL M.
B	2,398,298	05/09/46	FIREARM	FINLAY, ET AL.
R	2,402,632	06/25/46	BLAST DEFLECTOR AND GUN INSTALLATION	IVANOVIC, NICHOLAS
R	2,403,007	07/02/46	RECOIL BRAKE	MARIS, HARRY B.
B	2,417,721	03/18/47	AUTOMATIC VARIABLE CHOKE FOR GUN BARRELS	WHEDON, KENNETH
B	2,428,232	09/30/47	SHOTGUN CHOKE	LIMON, JOSEPH J.
R	2,442,382	06/01/48	COMPENSATOR FOR FIREARMS	SIEG, JAMES E.
B	2,442,899	06/08/48	CHOKE ATTACHMENT FOR GUN BARRELS	McALLISTER, WILLIAM H.
R	2,444,910	07/13/48	MUZZLE BRAKE FOR GUNS	BARKER, GEORGE A.
B	2,447,205	08/17/48	SHOTGUN MUZZLE DEVICE	POWEL, EDWARD B.
R	2,451,514	10/19/48	COMPENSATOR FOR GUNS	SIEG, JAMES E.
B	2,453,121	11/09/48	GAS PORTING DEVICE FOR SHOTGUNS	CUTTIS, RICHARD M.
B	2,453,747	11/16/48	SHOTGUN CHOKE	EGLESON, JAMES F. A.
R	2,464,010	03/08/49	EXTENSION FOR AUTOMATIC PISTOLS	VONELLA, WILLIAM R.
B	2,466,104	04/05/49	VARIABLE GUN CHOKE	HILBURN, JOSEPH C.
R	2,466,203	04/05/49	ATTACHMENT FOR GUN BARRELS	BRISTOW, EARL
B	2,466,400	04/05/49	RECOIL REDUCING AND SHOT-PATTERN CONTROLLING DEVICE	ENNIS, DARWIN T.
G	2,468,926	05/03/49	FLASH HIDER FOR MACHINE GUNS	GARRETT, EMIL
B	2,476,438	07/19/49	CHOKE STRUCTURE FOR GUN BARRELS	WRIGHT, LEE H.
R	2,478,774	08/09/49	ROCKET-LAUNCHING DEVICE	MEINEL, ADEN B.
B	2,484,988	10/18/49	MEANS FOR CONTROLLING SHOT PATTERNS	FINLAY, WALTER L.
B	2,484,998	10/18/49	MEANS FOR CONTROLLING SHOT PATTERNS	HUTCHINSON, GILBERT E.
B	2,489,568	11/29/49	GUN CHOKE DEVICE	FERHAT, RICHARD J.
B	2,490,829	12/13/49	COMBINED CHOKE REGULATOR AND RECOIL COMPENSATOR	NOLL, ROBERT M.
R	2,499,428	03/07/50	MUZZLE BRAKE	TIFFANY, RAY
B	D158,792	05/30/50	SHOT PATTERN CONTROL MUZZLE ATTACHMENT FOR FIREARMS	POWEL, EDWARD B.
B	D158,793	05/30/50	SHOT PATTERN CONTROL MUZZLE ATTACHMENT FOR FIREARMS	POWEL, EDWARD B.
B	D158,794	05/30/50	SHOT PATTERN CONTROL MUZZLE ATTACHMENT FOR FIREARMS	POWEL, EDWARD B.
B	D158,795	05/30/50	SHOT PATTERN CONTROL MUZZLE ATTACHMENT FOR FIREARMS	POWEL, EDWARD B.
B	D158,796	05/30/50	SHOT PATTERN CONTROL MUZZLE ATTACHMENT FOR FIREARMS	POWEL, EDWARD B.
B	D158,797	05/30/50	SHOT PATTERN CONTROL MUZZLE ATTACHMENT FOR FIREARMS	POWEL, EDWARD B.
B	2,512,850	06/27/50	PATTERN CONTROL MEANS FOR SHOTGUNS	CRANDALL, GLADSTONE B.
B	2,558,200	06/26/51	SHOTGUN CHOKE	SCHMELING, WILLIAM F.
R	2,567,826	09/11/51	MUZZLE RECOIL CHECK FOR FIREARMS	PRACHE, JACQUES E.
R	2,581,395	01/08/52	GAS PISTON OPERATED FIREARM	ELFSTROM, JOHN A.
B	2,589,171	03/11/52	SHOTGUN CHOKE AND COMPENSATOR	VIRONDA, ITALO D.
B	2,589,738	03/18/52	VARIABLE SELECTIVE AUTOMATIC CHOKE FOR SHOTGUNS	SEDBERRY, WILLIAM H.

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B	2,600,874	06/17/52	ADJUSTABLE CHOKE MEANS FOR SHOTGUNS	HOZA, WILLIAM J.
B	2,602,255	07/08/52	MUZZLE DEVICE FOR SHOTGUNS	CUTTS, RICHARD M.
B	2,629,958	03/03/53	SHOT PATTERN CONTROL DEVICE FOR SHOTGUNS	ROPER, ET AL.
B	2,634,537	04/14/53	VARIABLE CHOKE	VELEZ, ET AL.
B	2,656,637	10/27/53	SHOT PATTERNING RECOIL COMPENSATOR FOR FIREARMS	RICHARDS, KENNETH D.
B	2,656,638	10/27/53	SHOTGUN CHOKE	COBB, WILLIAM F.
B	2,658,298	11/10/53	SHOTGUN BARREL AND CHOKE	OBERFELL, GEORGE G.
B	2,662,326	12/15/53	SHOTGUN MUZZLE DEVICE	POWEL, EDWARD B.
B	2,663,961	12/29/53	CHOKE FOR GUN BARRELS	WHITE, EZEKIAL F.
R	2,667,815	02/02/54	COMPENSATOR FOR RIFLES	STRONG, VERNON L.
B	2,668,479	02/09/54	COMPENSATOR FOR SHOTGUNS	BATTEN, GERALD R.
B	2,676,429	04/27/54	AUTOMATIC CHOKE FOR FIREARMS	GOTTERTSON, HERBERT E.
B	2,685,144	08/03/54	ADJUSTABLE CHOKE ATTACHMENT FOR SHOTGUNS	SCHROEDER, ARLO E.
B	2,700,839	02/01/55	PATTERN CONTROL DEVICE FOR SHOTGUNS	FINLEY, ET AL.
B	2,712,193	07/05/55	SHOT GUN MUZZLE DEVICE	MATHIS, WILLIAM F.
B	2,731,754	01/24/56	ADJUSTABLE CHOKE FOR DOUBLE BARRELED SHOTGUNS	GIBSON, CLYDE M.
B	2,742,821	04/24/56	VENT FOR TAPERED BORE GUN	SWEETMAN, LEROY R.
B	2,759,286	08/21/56	CHOKE ATTACHMENT FOR GUNS	MOORE, THOMAS S.
B	2,765,564	10/09/56	AUTOMATIC SHOTGUN CHOKE OPERATED BY GASES OF...	SCHROEDER, ARLO E.
R	2,765,706	10/09/56	MUZZLE BRAKE	STROHL, KENNETH C.
R	2,770,904	11/20/56	GRENADE LAUNCHING DEVICE FOR A FIREARM HAVING A...	WEISS, WILLI...
B	2,771,698	11/27/56	AUTOMATIC CHOKE FOR SHOT GUNS	ROCHELLE, WILLIAM T.
R	2,778,278	01/22/57	GUN CARRIAGE WITH MUZZLE BRAKE	HERLACH, ET AL.
B	2,779,119	01/29/57	AUTOMATICALLY OPERATED VARIABLE SHOTGUN CHOKE	FAWCEY, GEORGE R.
R	2,780,962	02/12/57	BLAST SUPPRESSOR	RESSLER, ET AL.
R	2,787,194	04/02/57	GUN INSTALLATION IN JET AIRCRAFT	PETERSON, PAUL F.
G	2,792,760	05/21/57	COMBINATION FLASH AND STABILIZER FOR A FIREARM	HAMMER, ALEXANDER
R	2,796,005	06/18/57	RIFLE CONTROL TUBE	SHAPEL, ALFRED F.
B	2,807,903	10/01/57	ADJUSTABLE CHOKE	WHEELER, WARREN R.
B	2,808,763	10/08/57	RECOIL REDUCER FOR DOUBLE BARRELED SHOTGUNS	O'CONNELL, RAYMOND F.
R	2,809,560	10/15/57	MUZZLE BRAKE	MATSON, ET AL.
R	2,812,693	11/12/57	FORAMINOUS GUN MUZZLE	HARTLEY, JAMES C.
B	2,828,569	04/01/58	CHOKING DEVICE FOR FIREARMS	STEANE, HERBERT W.
B	2,837,856	06/10/58	DUAL COMPENSATOR HAVING SHOT CONTROLS FOR DOUBLE...	BENITEZ, HUMBERTO D.
R	2,842,024	07/08/58	ANTI-RECOIL GUN BARRELS	MUTTER, JOHN F.
B	2,847,788	08/19/58	AUTOMATIC SHOTGUN CHOKE	TWIGG, LESTER A.
B	2,852,983	09/23/58	MUZZLE BRAKE	NETZER, PAUL M.

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B	2,856,719	10/27/58	GAS OPERATED, SPRING-ROTATED, AUTOMATIC CHOKE DEVICE...	METZ, HASKEEL E.
R	2,859,663	11/11/58	GUN BLAST DEFLECTOR	IRBITIS, KARL
B	2,861,375	11/25/58	CHOKE DEVICE FOR ATTACHMENT TO A SHOTGUN	RODICK, DOUGLAS S.
B	2,861,376	11/25/58	INERTIA OPERATED CHOKE FOR SHOTGUNS	DENAUX, LOUIS M.
B	2,864,194	12/16/58	MANUALLY AND AUTOMATICALLY ADJUSTABLE CHOKE FOR...	GRAHN, ARNE Y.
B	2,866,288	12/30/58	BALL BEARING AND RETAINING BAND LOCKING DEVICE FOR THE...	HERTER, GEORGE L.
B	2,867,932	01/13/59	AUTOMATIC CHOKE FOR SHOTGUNS	KEIGHTLEY, GEORGE M.
B	2,869,272	01/20/59	GAS OPERATED AUTOMATIC SHOTGUN CHOKE	COYLE, EUGENE F.
G	2,870,679	01/27/59	FLASH SUPPRESSOR	COLLINS, RICHARD V.
R	2,872,848	02/10/59	GUN BLAST SUPPRESSOR	SCHÜESSLER, KARL E.
R	2,883,781	04/28/59	COMBINATION STABILIZER, RECOIL BRAKE, FLASH HIDER, AND...	HARVEY, EURL M.
B	2,883,782	04/28/59	AUTOMATIC SHOTGUN CHOKE	SCHROEDER, ARLO E.
B	2,888,769	06/02/59	CHOKE MECHANISM FOR FIREARMS	GRAHN, ARNE Y.
B	2,894,348	07/14/59	ADJUSTABLE MUZZLE CHOKE	CUTTS, RICHARD M.
B	2,894,349	07/14/59	AUTOMATIC CHOKE DEVICE FOR SHOTGUNS	HARE, ROBERT G.
R	2,899,866	08/19/59	BLAST-CONTROLLING MEANS	CLARK ET AL.
B	2,900,752	08/25/59	CHOKE CONTROL DEVICE FOR SHOTGUN BARRELS	BROWNING, VAL A.
G	2,900,875	08/25/59	FLASH AND NOISE SUPPRESSOR FOR HIGH PRESSURE	FERGUS, ET AL.
R	2,916,970	12/15/59	ANTI-RECOIL GUN BARRELS	MUTTER, JOHN F.
B	2,922,242	01/26/60	SHOT PATTERN CONTROL DEVICE FOR SHOT GUNS	PACHMAYR, FRANK A.
B	2,932,915	04/19/60	CHOKE-COMPENSATOR ADAPTER FOR METAL PLASTIC...	WILSON, JOHN L.
R	2,935,000	05/03/60	COMBINATION TORQUE AND RECOIL COMPENSATOR AND...	MOWREY, WILLIAM L.
B	2,937,465	05/24/60	AUTOMATIC CHOKE ATTACHMENT FOR SHOTGUNS	DENAUX, SR. LOUIS M.
R	2,953,972	09/27/60	MUZZLE EQUALIZER AND BLAST MINIMIZER FOR GUN	SORENSEN, HANS C.
B	2,963,943	12/13/60	GAS PORTING DEVICE FOR A SHOTGUN	CUTTS, RICHARD M.
B	2,968,171	01/17/61	ADJUSTABLE SHOTGUN CHOKE	STEANE, HERBERT W.
B	2,972,829	02/28/61	AUTOMATICALLY ADJUSTABLE CHOKE FOR SHOTGUNS	GRAHN, ARNE Y.
B	2,977,702	04/04/61	CHOKE WITH CONTACTING FINGERS AND SLEEVE SURFACES OF...	SCHACHT, EWALD.
B	2,984,926	05/23/61	ADJUSTABLE SHOTGUN CHOKE CONTROL	HAVLIN, CLARENCE J.
G	2,985,074	05/23/61	FLUTED FLASH HIDER	MUSSER, C. WALTON
B	2,989,815	06/27/61	AUTOMATIC CHOKE DEVICE FOR SHOTGUNS	HARE, ROBERT G.
R	3,021,633	02/20/62	COMBINATION MUZZLE BRAKE AND GRENADE LAUNCHER FOR...	BERETTA, PIER C.
B	3,029,540	04/17/62	GUN CHOKE MOUNTING APARATUS	PACHMAYR, FRANK A.
B	3,045,378	07/24/62	SHOTGUN CHOKE	DENAUX, LOUIS M.
B	3,045,379	07/24/62	CHOKE ATTACHMENT FOR SHOTGUNS	CUTTS, RICHARD M.
R	3,051,057	08/28/62	AUTOMATIC HAMMER COCKING & CYLINDER INDEXING MEANS	IVY, JESSIE T.
B	3,089,273	04/24/61	LOCKING DEVEIC FOR CHOKES FOR SHOTGUNS	PHILLIPPE, MAURICE

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R	3,099,938	08/06/63	ARMAMENT FOR JET AIRCRAFT	MARSHALL, ET AL.
R	3,101,028	08/20/63	DEVICE FOR GUNS ON COMBAT VEHICLES	BERGE, SVENE E.
R	3,114,882	11/26/63	MUZZLE VELOCITY COMPENSATING DEVICE	MUSSER, C. WALTON
R	3,114,289	12/17/63	MUZZLE BRAKE	AULBAUGH, WILLIAM E.
R	3,115,060	12/24/63	GAS INERTIA CONTROLLER	ASHBROOK, ET AL.
B	3,123,929	03/10/64	FIREARM CHOKE MOUNTING	PACHMAYR, FRANK A.
R	3,138,991	06/30/64	FIREARM MUZZLE ATTACHMENT AND PROJECTILE WITH...	MAETER, RICHARD E.
G	3,141,376	07/21/64	FLAME-OUT ELIMINATOR	CHINN, GEORGE M.
G	3,149,532	09/22/64	SMOKE AND FLASH REDUCER	PITTAWAY ET AL.
R	3,152,510	10/16/64	RECOIL CONTROLLING DEVICE	ASHBROOK, ET AL.
R	3,155,003	11/03/64	FIREARMS ACCESSORY FOR ATTACHMENT TO MUZZLE OF BARREL	RUTH, JOHN H.
B	3,156,060	11/10/64	SHOTGUN CHOKE	PACHMAYR, FRANK A.
B	3,156,061	11/10/64	INERTIA OPERATED AUTOMATIC SHOTGUN CHOKE	EVANS, WALTER B.
B	3,161,979	12/22/64	ADJUSTABLE SHOTGUN CHOKE DEVICE	LOWE, CHARLES E.
B	3,163,953	01/05/65	EXTENSION FOR SHOTGUN BARREL	BRIDGE, SR., EDWARD W.
R	3,164,060	01/05/65	GUN RECOIL, FLASH AND SOUND REDUCER ASSEMBLY	DAHL, EDWIN G.
B	3,166,865	01/26/65	GUN CHOKE	GRAHN, ARNE Y.
R	3,177,771	04/13/65	COUNTER-RECOIL MECHANISM FOR FIREARMS	McKIM, CARROL D.
R	3,179,011	04/20/65	GUN STABILIZER AND FLASH SUPPRESSION MEANS	RAHM, JOSEPH L.
B	3,181,262	05/04/65	EXTENSION FOR SHOTGUN BARREL	BRIDGE, SR., EDWARD W.
R	3,187,633	06/08/65	CONTRA-JET MUZZLE BRAKE FOR FIREARMS	TANABE, DAVID S.
R	3,202,056	08/24/65	FIRE ARM MUZZLE BRAKE	SEEBERGER, KURT
R	3,208,348	09/28/65	GUN MUZZLE ATTACHMENT DEVICE FOR COUNTERACTING RECOIL	LEE, CLARENCE H.
B	3,226,874	01/04/66	SHOTGUN MUZZLE CONTRUCTION	SARGEANT, ET AL.
B	3,229,402	01/18/66	VARIABLE-EFFECT SHOTGUN CHOKE	THACKER, HUGH P.
B	3,243,910	04/05/66	SHOTGUN CHOKE	WEISER, BERNARD
G	3,272,074	09/13/66	MUZZLE FLASH SUPPRESSOR	VINSON, NEAL L.
B	3,284,942	11/15/66	SHOTGUN PATTERN CONTROL TUBE	MOSELEY, WILLIAM W.
R	3,298,280	01/17/67	GUN STABILIZER	RAHM, JOSEPH L.
R	3,340,769	09/12/67	GUN-BLAST AND MUZZLE FLASH ELIMINATOR	WASER, ROBERT A.
B	3,367,055	02/06/68	SHOTGUN MUZZLE DEVICE COMPRISING A COMPENSATOR AND...	POWEL, EDWARD B.
R	3,368,453	02/13/68	MUZZLE BRAKE	SHAW, JOHN J.
B	3,408,762	11/05/68	CHOKE FOR SHOTGUNS	DURAO, AMERICO
R	3,409,232	11/05/68	COUNTER RECOIL MEGHANISM	GHOLIN, ROGER R.
R	3,455,203	07/15/69	MULTI-LINEAR NOZZLE BALLISTIC ATTENUATOR OF RECOIL-BLAST	PILLERSDORF, ARTHUR
B	3,492,750	02/03/70	MUZZLE CHOKE	ASHBROOK, ET AL.
R	3,492,912	02/03/70	RECOIL CONTROLLING DEVICE	ASHBROOK, CLIFFORD L.

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B	3,528,336	09/15/70	MUZZLE ASSEMBLY FOR SMOOTH-BORE PROJECTILES	DONNER, FREDRIK
R	3,603,202	09/07/71	MUZZLE BRAKE	MORAGNE, EDWARD L
B	3,605,313	09/20/71	CHOKE MEANS	KRANZ, JEREMIAH J
R	3,665,804	05/30/72	SEMI-AUTOMATIC RAPID FIRING PISTOL WITH GAS ESCAPE	ROHR, EDWIN
B	3,676,947	07/18/72	MUZZLE CHOKE	ASHBROOK, ET AL
B	3,698,747	10/17/72	THREADLESS CONNECTOR	WING, ET AL
R	3,703,122	11/21/72	MUZZLE BRAKE TORQUE ASSIST FOR MULTI-BARREL WEAPONS	FARRINGTON, ET AL
G	3,705,529	12/12/72	FLASH SUPPRESSOR ASSEMBLY FOR GATLING-TYPE MACHINE	WILLIAMS, KEITH S.
R	3,707,899	01/02/73	FIREARMS MUZZLE DEFLECTOR	PERBINE, WALTER E.
R	3,710,683	01/16/73	MUZZLE BRAKE WITH FLASH HIDER FOR AUTOMATIC WEAPONS	KALTMANN, HANS-JOACHIM
R	3,711,980	01/23/73	SEMI-AUTOMATIC MARKSMANSHIP COMPETITION PISTOL FOR	PALAMA, ROBERTO
B	3,714,727	02/06/73	GUN BARREL	IINO, HIDEO
R	3,714,864	02/06/73	MUZZLE ATTACHMENT FOR REDUCING THE RECOIL AND BLAST	THIERRY, ROBERT J
B	3,789,731	11/06/73	ANTI-FOLLOWING SHOT PATTERN CONTROL DEVICE	PACHMAYR, FRANK A
B	3,797,155	03/19/74	AUTOMATIC SHOTGUN CHOKE	SMITH, ET AL
R	3,808,943	05/07/74	GUN-LEVELING DEVICE	KELLY, LARRY
B	3,812,610	05/28/74	CHOKE MEANS	KRANZ, JEREMIAH J.
B	3,831,306	08/27/74	AUTOMATIC SHOTGUN CHOKE	GREGG, WOODROW W.
R	3,858,481	01/07/75	COMPENSATOR SYSTEM FOR SPORTING AND TARGET RIFLES	ELLIOTT, OTHO H.
B	3,867,778	02/25/75	AUTOMATIC CHOKE FOR HUNTING RIFLES	PREDA, ET AL
R	3,898,910	08/12/75	PADDLE WHEEL DIFFUSER	GROFF, RICHARD T.
R	3,951,039	04/20/76	FIREARMS WITH MUZZLE AND SMOOTH-BORE BARREL FOR FIRING	MANNINEN, ET AL
R	3,971,285	07/27/76	ADJUSTABLE MUZZLE COMPENSATOR	ELLS, ET AL
R	3,978,762	09/07/76	COMPENSATOR FOR SPORTING FIREARMS	KHAIDUROV, ET AL
B	4,008,538	02/22/77	GUN	CENTER, WARREN A.
R	4,024,790	05/24/77	BORE GAS EVACUATION DEVICE FOR CANNONS AND GUNS	HEIDERER, CONRAD E.
G	4,024,791	05/24/77	GUN MUZZLE FLASH SUPPRESSOR	STRATMAN, URBAN F.
R	4,058,050	11/15/77	GUN-LEVELING DEVICE	BROUHERS, PAUL E.
B	4,058,925	11/22/77	CONCEPTS OF REMINGTON SUPER TRAP CHOKE	LINDE, ET AL
B	4,071,971	02/07/78	DEVICE FOR INCREASING AND STANDARDIZING THE SCATTER OF	TORNAS, OLLE
R	4,121,496	10/24/78	GUN-POD STATIONARY BLAST DIFFUSER	CLAYSON, ARTHUR E.
B	4,151,671	05/01/79	MECHANISM FOR REMOTELY OPERATING VARIABLE CHOKE	McPEAK, WALTER C.
R	4,207,799	06/17/80	MUZZLE BRAKE	TOCCO, CHARLES T.
R	4,235,152	11/25/80	STABILIZER FOR GUNS	BEKKER, ET AL
R	4,242,961	01/06/81	CHEVRON GROOVE DECOUPLING OBTURATOR	MOREDOCK, ET AL
R	4,307,652	12/29/81	MUZZLE GUARD FOR FIREARMS	WITT, ET AL
R	4,322,999	04/06/82	STABILIZING VENT SYSTEM FOR GUN BARRELS	ASTON, THOMAS M.

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R	4,374,484	02/22/83	COMPENSATOR FOR MUZZLE CLIMB	BEKKER, ET AL
R	D268,861	05/03/83	FIREARM MUZZLE BRAKE OR SIMILAR ARTICLE	GWINN, JR.; MACK W.
B	4,386,477	06/07/83	SHOTGUN CHOKE MODIFIER AND METHOD	BRILEY, JESS
R	4,392,413	07/12/83	MUZZLE ATTACHMENT FOR A FIREARM BARREL	GWINN, JR.; MACK W.
R	4,404,887	09/20/83	RECOIL REDUCER	RIESIK, EDWARD D.
R	4,406,078	09/27/83	SIGHT RIB FOR FIREARMS LEVELING	De BLIEK, JOHN H.
R	4,429,614	02/07/84	SLIP ON COMPENSATOR FOR REVOLVERS	TOCCO, CHARLES T.
R	4,436,017	03/13/84	MUZZLE BRAKE FOR ARTILLERY GUNS	MOHLIN, KJELE
R	4,459,895	07/17/84	RECOIL REDUCING DEVICE FOR FIREARMS	MAZZANTI, VINCENT E.
B	4,467,456	08/28/84	GUN BARREL CHOKE	BERETTA, PIER C.
R	D279,812	07/23/85	BARREL FOR FIREARMS	CELLINI, VITO
R	4,534,264	08/13/85	RECOIL REDUCER	TARNOFF, ET AL
R	D280,655	09/17/85	COMBINED RECOIL REDUCER AND FLAME SUPPRESSOR FOR	CELLINI, VITO
R	4,545,285	10/08/85	MATCHED EXPANSION MUZZLE BRAKE	McLAIN, CLIFFORD E.
R	D284,895	12/24/85	MUZZLE BRAKE	McLAIN, CLIFFORD E.
R	4,562,767	01/07/86	MUZZLE RECOIL DAMPNER	JANSSEN, ET AL
G	4,570,529	02/18/86	FLASH SUPPRESSOR FOR FIREARMS HAVING RIFLED BARRELS	A' COSTA, ANTHONY
R	4,574,682	03/11/86	TORQUE ASSIST DEVICE FOR A MULTI-BARREL WEAPON	HILLMAN, CHARLES E.
G	4,583,445	04/22/86	FLASH REDUCING MUZZLE BRAKE	BLAIR, STEVEN M.
R	D285,235	08/19/86	PISTOL BARREL AND RECOIL REDUCER	CELLINI, VITO
R	D285,237	08/19/86	REVOLVER BARREL	CELLINI, VITO
R	D285,238	08/19/86	COMBINED STABILIZER, FLASH HIDER, AND RECOIL REDUCER	CELLINI, VITO
R	D285,331	08/26/86	REVOLVER BARREL WITH INTEGRATED RECOIL REDUCER	CELLINI, VITO
R	4,635,528	01/13/87	ADJUSTABLE FIREARM STABILIZER	McQUEEN, SIDNEY J.
R	4,643,073	02/17/87	MUZZLE STABILIZATION ARRANGEMENT FOR FIREARMS	JOHNSON, HAROLD E.
G	4,664,014	05/12/87	FLASH SUPPRESSOR	HAWLEY, ET AL
R	H319	08/04/87	GUN BLAST DIFFUSER	CLAYSON, ARTHUR E.
R	4,691,614	09/08/87	NONSYMMETRICAL COMPENSATOR FOR HANDGUN	LEFFEL, ET AL
R	4,709,497	12/01/87	HANDGUN FRAME WITH FIXED BARREL BUSHING	RESCA, FRANCO
B	4,711,048	12/08/87	ANTI PERSONNEL SHOTGUN CHOKE	ASHBROOK, CLIFFORD L.
B	4,713,903	12/22/87	CHOKE ASSEMBLIES FOR SHOTGUNS	MAINLAND, DONALD R.
B	4,713,904	12/22/87	AUTOMATIC CHOKE SHOTGUN	ANDERSON, ET AL
R	4,715,140	12/09/87	COMPENSATOR FOR HANDGUNS AND THE LIKE	ROSENWALD, FRED
G	4,716,809	01/05/88	DEBRIS SHIELD/FLASH REDUCER	A' COSTA, ANTHONY
R	D296,350	06/21/88	RECOIL CONTROLLER FOR FIREARMS	CELLINI, VITO
R	4,757,741	07/19/88	MEANS FOR EFFECTING RANDOM DISPERSION OF BULLETS	BROTHERS, JACK
R	4,811,648	03/14/89	MUZZLE BRAKE DEVICE	BLACKWELL, ET AL

CODE	PATENT#	DATE	TITLE	INVENTOR
R	4,813,333	03/21/89	DUALLY-ADJUSTABLE FIREARM MUZZLE ATTACHMENT DEVICE	GARRIS, ET AL.
R	D300,763	04/18/89	MUZZLE ATTACHMENT FOR GUNS	MAZZANTI, VINCENT E.
R	4,833,808	05/30/89	ANTI-RECOIL DEVICE	STRAHAN, TRAVIS
R	4,852,460	08/01/89	MUZZLE BRAKE SYSTEM	DAVIDSON, WINDELL L.
R	4,869,151	09/26/89	NOISE AND RECOIL SUPPRESSOR APPARATUS FOR HIGH	CHAHIN, EDUARDO A.
R	4,879,942	11/14/89	MUZZLE BRAKE WITH IMPROVED STABILIZATION AND BLAST	CAVE, JAMES B.
G	4,893,544	01/16/90	FLASH SUPPRESSOR	HAWLEY, ET AL.
R	4,913,031	04/03/90	VIBRATION DAMPING DEVICE FOR IMPROVING THE HIT ACCURACY	BOSSARD, ET AL.
R	4,919,035	04/24/90	MUZZLE BRAKE AND TOOL FOR INSTALLATION	PINKSTON, ET AL.
R	4,930,396	06/05/90	GUN MUZZLE BRAKE	JOHNSON, SAM E.
R	4,930,397	06/05/90	DEVICE FOR COMPENSATING THE RECOIL ENERGY OF SMALL	SEIDLER, HERIBERT
R	4,942,801	07/24/90	FIREARM GUN RISE AND MUZZLE JUMP REDUCER	SCHUEMANN, WIL
R	4,944,210	07/31/90	COMPENSATOR FOR HAND-HELD FIREARMS	EWERT, CHARLES
R	4,945,812	08/07/90	MUZZLE BRAKE AND METHOD FOR MAKING THE SAME	MAZZANTI, VINCENT E.
R	4,976,184	12/11/90	AUTOMATIC PISTOL BARREL AND RECOIL COMPENSATOR	BUNGZK, JOSEPH M.
G	5,005,463	04/09/91	FLASH SUPPRESSOR FOR FIREARMS	A' COSTA, ANTHONY
R	5,020,416	06/04/91	MUZZLE BRAKE FOR FIREARMS	TRIPP, FRED D.
R	5,036,747	08/06/91	MUZZLE BRAKE	McCLAIN, III, HARRY T.
R	5,063,827	11/12/91	MUZZLE BLAST DEFELECTOR	WILLIAMSON, ROY
R	5,076,137	12/31/91	DYNAMIC ACTION COMPENSATOR FOR HANDGUNS	PAREDES, SAMUEL A.
R	5,092,223	03/03/92	MUZZLE BRAKE AND FLASH HIDER	HUDSON, LEE C.
R	5,105,717	04/21/92	COMPENSATOR SYSTEM FOR FIREARMS	POND, HOWARD C.
R	5,119,716	06/09/92	MUZZLE BRAKE FOR LARGE CALIBER TUBULAR WEAPON	BARTOLLES, ROLF
R	5,123,328	06/23/92	FIREARM BARREL WITH NOZZLES	SCHUEMANN, WIL
R	D328,632	08/11/92	RECOIL COMPENSATOR	BIGWOOD, WILLIAM J.
B	5,155,291	10/13/92	BARREL ASSEMBLY FOR HOME SECURITY WEAPON	DABROWSKI, GARY P.
B	5,157,211	10/20/92	CHOKE TUBE ASSEMBLY	MOSSBERG, ALAN I.
R	5,225,615	07/06/93	COMPENSATED BARREL SHROUD	TALBOT, ET AL.
B	5,243,895	09/14/93	SHOT GUN BARREL LEVELING DEVICE	DICKMAN, ET AL.
B	5,249,385	10/05/93	SHOTGUN BARREL	YANG, ET AL.
B	5,272,827	12/28/93	SHOTGUN BARREL	YANG, ET AL.
B	D343,222	01/11/94	CHOKE TUBE	MORALES, JOSE M.
R	5,279,200	01/18/94	BALLISTIC OPTIMIZING SYSTEM FOR RIFLES	ROSE, CLYDE E.
G	5,303,634	04/19/94	FLASH SUPPRESSOR	WARNER, ET AL.
R	5,305,677	04/26/94	MUZZLE BRAKE BULLET STABILIZER	KLEINGUENTHER, ET AL.
R	5,305,678	04/26/94	COMPENSATED BARREL SHROUD	TALBOT, ET AL.
B	5,309,814	05/10/94	HOME SECURITY BARREL ASSEMBLY	MOSSBERG, ALAN I.

CODE	PATENT#	DATE	TITLE	INVENTOR
B	5,315,914	05/31/94	METHOD OF REDUCING THE NOISE OF FIREARMS AND FIREARM	SCHUMACHER, MICHAEL
B	5,317,825	06/07/94	CHOKE ASSEMBLY FOR A SHOTGUN	VATTEROTT, ET AL
R	5,320,022	06/14/94	APPARATUS FOR REDUCING RECOIL AND MUZZLE CLIMB FROM	KIMBRO, ET AL
G	5,325,759	07/05/94	FLASH SUPPRESSOR	WARNER, ET AL
R	5,349,147	07/26/94	FIREARM BARREL MUZZLE ATTACHMENT	GWINN, JR, MACK W
R	5,333,529	08/02/94	CONVERTIBLE MUZZLE BRAKE	BROCKMAN, JAMES W
R	5,357,842	10/25/94	RECOIL REDUCING DEVICE	REYNOLDS, CHARLES E
G	5,361,677	11/08/94	FLASH SUPPRESSOR	WARNER, ET AL
R	5,367,940	11/29/94	COMBINED MUZZLE BRAKE, MUZZLE CLIMB CONTROLLER AND	TAYLOR, HARRY A
R	5,385,079	01/31/95	VORTICES ACTIVATED MUZZLE STABILIZER FOR A GUN	CAVE, RICHARD G
B	5,394,633	03/07/95	SHOTGUN SIGHT EXTENSION APPARATUS	ALESSANDRI, JR, LOUIS A
B	5,394,634	03/07/95	SHOTGUN BARREL	VANG, ET AL
R	5,415,073	05/16/95	RECOIL REDUCER FOR RIFLE, HANDGUN, OR SHOTGUN	CILUFFO, GARY
R	5,423,242	06/13/95	HYBRID PORTED FIREARMS	SCHUEMANN, WILFRED C
R	5,425,298	06/20/95	ADJUSTABLE MUZZLE BRAKE FOR A FIREARM	COBURN, RONALD
B	5,452,535	09/26/95	SHOTGUN SHELL WAD/SHOT CUP RETARDING DEVICE	SEE, ET AL
R	5,476,028	12/19/95	GUN MUZZLE BRAKE	SEBERGER, OSWALD P
R	5,485,775	01/23/96	GUN GAS CONTROL SYSTEM FOR MULTI BARREL WEAPONS	DUKE, ET AL
R	5,509,345	04/23/96	MUZZLE ATTACHMENT FOR IMPROVING FIREARM ACCURACY	CYKTIK, JAMES M
R	5,549,030	08/27/96	AUTOMATIC PISTOL WITH INTEGRAL COMPENSATOR	LESPRON, ANGEL
R	5,563,362	10/08/96	COMPENSATOR ATTACHMENT FOR PISTOL	YORK, WILLIAM H
R	RE35,384	11/26/96	BALLISTIC OPTIMIZING SYSTEM FOR RIFLES	ROSE, CLYDE E
R	5,583,313	12/10/96	RETRACTABLE BLAST PRESSURE AND FLASH SUPPRESSOR	AUSTIN, PAUL A
B	5,587,549	12/24/96	ANGULAR PORTING SYSTEM AND SHOTGUN BARREL EQUIPPED	GLOUSE, JOHN D
G	5,596,161	01/21/97	MUZZLE FLASH SUPPRESSOR	SOMMERS, SONJA
R	5,612,504	03/18/97	MUZZLE BRAKE FOR RIFLE OR SIMILAR FIREARMS	STITT, ET AL
R	5,631,438	05/20/97	ADJUSTABLE GAS PRESSURE DEFLECTOR	MARTEL, PHILLIP C
R	5,639,981	06/17/97	BARREL FOR MUZZLE LOADING FIREARM	FRENCH, KENDRICK L
R	5,652,406	07/29/97	MUZZLE BRAKE	PHAN, KETCHONG
B	5,666,756	09/16/97	SHOTGUN HAVING LIGHT WEIGHT INTERCHANGEABLE BARREL	MOLLER, CLIFFORD
R	5,675,107	10/07/97	MUZZLE BRAKE FOR MEDIUM OR LARGE CALIBER CANNONS	LEDYS, ET AL
R	5,698,810	12/16/97	CONVERTIBLE BALLISTIC OPTIMIZING SYSTEM	ROSE, CLYDE E
R	5,753,846	05/19/98	BARREL EXTENDER WITH RECOIL REDUCTION	KOON, HOMER
R	5,794,374	08/18/98	GUN BARREL STABILIZER	GRANDALL, DAVID L
R	5,798,474	08/25/98	MUZZLE BLAST DEFLECTOR	ROGERS, ET AL
R	5,811,714	09/22/98	GUN MUZZLE BRAKE	HULL, ET AL
R	5,814,757	09/29/98	MUZZLE BRAKE	BUSS, RICHARD A

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R	5,831,202	11/03/98	MUZZLE ATTACHMENT FOR BARREL OF GAS OPERATED WEAPON	RUSTICK, JOSEPH M.
R	5,844,162	12/01/98	MUZZLE VENTING IN MUZZLE LOADING RIFLES	RENNER, ROGER J.
R	5,860,242	01/19/99	REMOVABLE HARMONIC TUNING SYSTEM FOR FIREARMS	O'NEAL, PAT.
R	5,883,328	03/16/99	TACTICAL SMOOTHBORE BREACHING DEVICE/FLASH SUPPRESSOR	A' COSTA, ANTHONY
R	5,992,291	11/30/99	VARIABLE VELOCITY WEAPONS HAVING SELECTIVE LETHALITY	WIDDER, ET AL.
B	6,052,935	04/25/00	SHOTGUN CHOKE TUBE	HOWARD, BRADLEY P.
R	6,089,139	07/18/00	POROUS NOZZLE PROJECTILE BARREL	RUSSELL, RONNIE D.
B	6,112,447	09/05/00	SHOTGUN CHOKE	ANDROSOV, DENNIS V.
B	6,128,846	10/10/02	LENGTH SHOTGUN CHOKE TUBE	WALKER, ET AL.
R	6,216,578	04/17/01	MUZZLE BRAKE FOR WEAPON BARREL	LEDYS, ET AL.
R	6,269,727	08/07/01	JUMP AND RECOIL COMPENSATOR FOR FIREARMS	NIGGE, WERNER
R	6,276,251	08/21/01	MUZZLE BRAKE	DOWNING, ET AL.
B	6,289,620	09/18/01	SMOOTH BORE RIFLE BARREL	DORIA, PIERLUIGI
G	6,298,764	10/09/01	FLASH SUPPRESSOR	SHERMAN, ET AL.
G	6,308,608	10/30/01	DUST SUPPRESSION	EISENMAN, MOSHE
B	6,421,945	07/23/02	MUZZLE LOADING SHOTGUN WITH CHOKE	HENGSTENBERG, ERIC T.
R	6,425,310	07/30/02	MUZZLE BRAKE	CHAMPION, EDWIN J.
R	6,450,079	09/17/02	DEVICE FOR AFFIXING A MUZZLE BRAKE TO A WEAPON	BOURDIN, ET AL.
R	6,497,170	12/24/02	MUZZLE BRAKE VIBRATION ABSORBER	KATHE, ERIC L.
R	6,516,698	02/11/03	MUZZLE BRAKE FOR FIREARMS	POFF, JR., CHARLES R.
B	6,557,290	05/06/03	ADJUSTABLE SHOTGUN CHOKE	KUMLER, DANIEL F.
R	6,578,462	06/17/03	RADIAL VENTING BAFFLED MUZZLE BRAKE	FRANCHINO, ET AL.
R	6,595,099	07/22/03	MULTIFUNCTIONAL FIREARM MUZZLE ATTACHMENTS	OLSEN, ET AL.
R	6,604,445	08/12/03	GAS TRAP (GT) COMPENSATOR	SEVASTIAN, NICOLAE R.
B	6,609,324	08/26/03	ADJUSTABLE SHOTGUN CHOKE DEVICE	TRUITT, JR., HENRY J.
R	6,668,699	12/30/03	POROUS NOZZLE PROJECTILE BARREL	RUSSELL, RONNIE D.
R	6,722,254	04/20/04	MUZZLE BRAKE	DAVIES, ROBERT B.
R	6,748,844	06/15/04	ARTILLERY FIRING SYSTEM	ANG, TEOH HWA.
R	6,752,062	06/22/04	MUZZLE BRAKE	VAIS, GEORGE M.
R	6,769,346	08/03/04	REVERSE THRUST SYSTEM WITH INTEGRAL CONDUITS AND...	ROSENTHAL, HERBERT
B	6,782,651	08/31/04	BREACHING TOOL	WALKER, ET AL.
B	6,789,343	09/14/04	AUTOMATIC CHOKE SYSTEM	DIETRICH, ET AL.
R	6,820,530	11/23/04	EXTENDED CHAMBER MUZZLE BRAKE	VAIS, GEORGE M.
G	6,837,139	01/04/05	FLASH SUPPRESSOR APPARATUS AND METHODS	MEYERS, BRAD E.
R	6,899,008	05/31/05	GUN BARREL HAVING A MUZZLE BRAKE	BREUER, HEINZ GUENTER
			DEFINITIONS FOR CATEGORY 42 - FIREARMS	
			DEFINITIONS FOR CATEGORY 89 - ORDNANCE	

**DECLARATION OF JASON A. DAVIS IN OPPOSITION TO DEFENDANTS' MOTION
FOR SUMMARY JUDGMENT, ETC. AND IN SUPPORT OF PLAINTIFFS' MOTION
FOR SUMMARY JUDGMENT, OR IN THE ALTERNATIVE, SUMMARY
ADJUDICATION**

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IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA
IN AND FOR THE COUNTY OF FRESNO

EDWARD W. HUNT, in his official
capacity as District Attorney of Fresno
County, and in his personal capacity as a
citizen and taxpayer, et al.,

Plaintiffs,

v.

STATE OF CALIFORNIA, et al.,

Defendants.

) CASE NO. 01CECG03182
)
) **DECLARATION OF JASON A. DAVIS IN**
) **OPPOSITION TO DEFENDANTS' MOTION**
) **FOR SUMMARY JUDGMENT, ETC. AND IN**
) **SUPPORT OF PLAINTIFFS' MOTION FOR**
) **SUMMARY JUDGMENT, OR IN THE**
) **ALTERNATIVE, SUMMARY**
) **ADJUDICATION**

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EXHIBIT "A"

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How-To Articles: Page 359

Factory Parts: Page 365

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**SMITH ENTERPRISE AR-15
MUZZLE BRAKE**

No Gunsmithing Recoil Control For Semi-Auto Rifles



End to muzzle flip and felt recoil for more comfortable shooting and faster follow-up shots. On most models installation requires absolutely no machining, cutting or fitting. For AR-15 rifles with 223 and 9mm with threaded muzzles, just remove the muzzle brake and screw the Smith Muzzle Brake on.

Machined steel, black manganese, mil-spec finish. 2" diameter, 1/2" (19mm) dia. AR-15, .223, 1/2" (19mm) dia. AR-15, 9mm, 1/2" (19mm) dia. lock nut. Includes installation instructions.

- #851 100-015 AR-15 Muzzle Brake 1E36A03 \$ 47.33
- #851 100-009 AR-15 9mm Brake 1E29A33 36.66

NECO PRESSURE (FIRE) LAPPING KIT

Smooths Rough Bores For Increased Accuracy & Easier Cleaning



Pressure- or fire-lapping significantly smooths rough or poorly machined rifle and pistol bores for enhanced accuracy, decreased fouling and improved coefficient of friction. Kit contains laboratory-grade brass lead, slugging bullets, abrasive embedding plates and a complete instruction booklet.

Kit contains: 1 oz. (28g) lbs of #220, #400, #800, #1200 grit abrasive; 10 bore slugging bullets; steel embedding plates. All slugging bullets available separately in packs of 10 each.

- #443 100-223 .22 Cal. Lapping Kit 3D04Z32 \$ 75.50
- #443 100-243 6mm Lapping Kit 3D04Z32 75.50
- #443 100-308 .30 Cal. Lapping Kit 3D04A32 75.50
- #443 101-022 .22 Bore Slugging Bullets 3D05A15 6.35
- #443 101-030 .30 Bore Slugging Bullets 3D05A30 6.85

**AR-15/AR-10
FLASH SUPPRESSOR TAP & DIE**

Accurately Thread Custom Barrels, Easily Clean Up Standard Barrels, or Recondition Damaged Threads



A must when threading custom barrels or chasing threads on standard barrels. Use to make custom suppressors or clean up existing factory threads. Custom-made to factory specs.

- #080 598-528 AR-15/M16 Flash Suppressor Tap, 6K22C73 \$ 29.97
- #080 598-529 AR-16/M16 Flash Suppressor Die, 6K13C73 21.97
- #080 598-530 AR-10 Thread Cutting Die 2K20C20 25.25
- #080 598-531 AR-10 Bottoming Tap 2K19C30 24.99

DPMS AR-15

MICULEK COMP

Six-Port Design Directs Blast Away From Shooter



These large baffles with six side ports and no top vents direct muzzle gases to the side, away from the shooter. Effectively reduces muzzle rise and recoil, minimizes felt muzzle blast, and volume shooters will appreciate reduced noise and ease of loading. Solid bottom minimizes dust printing when shooting prone. Easy installation, secured with the supplied lock nut.

- #731 000-038 AR-15 Miculek Comp 1E28V38 \$ 49.59

CAVALRY ARMS AR-15 CAV COMP

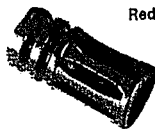
Looks Right, Reduces Recoil On Pre- & Post-Ban Rifles

Machined from bar stock with an integral, solid baffle that won't shoot out. Top and side ports counter recoil and muzzle rise. Solid bottom controls dust printing. A-2-style looks correct on pre- and post-ban rifles.

- SPECS: Steel, black, matte finish. 1 1/2" (4.4cm) long, 1/2" (19mm) diameter. .223 - 1/2" (19mm) dia. 9mm - 1/2" (19mm) dia. #100-000-189 223 Cav Comp 2K24C30 \$ 27.00
- #100-000-906 9mm Cav Comp 2K24T30 27.00

DPMS AR-15 A2 FLASH SUPPRESSOR

Reduces Muzzle Flash; Dissipates Gas



Machined steel, five-port flash suppressor effectively controls muzzle flash to minimize shooter exposure in both daytime and low-light situations. Ports are located along the top of the suppressor and bottom is solid to reduce dust printing when shooting prone.

- SPECS: Machined steel, matte black. 1 1/2" (4.4cm) long, 1/2" (19mm) O.D., 1/2" (19mm) dia. Requires peel washer (not included) for proper indexing. #231-000-198 A2 Flash Suppressor 3B04Y33 \$ 8.00

**YANKEE HILL MACHINE
PHANTOM MUZZLE ACCESSORIES**

Dedicated Flash Suppressor Or Comp/Flash Hider Combo; Aggressive Front End Cuts For CQB Maneuvers

PHANTOM FLASH SUPPRESSOR

Four, helical ports help minimize the blinding effects of muzzle flash in complete darkness for improved target acquisition during night operations. Aggressive, serrated notches at the tip provide extra insurance in hand-to-hand combat situations. Integral rings at the base accept military sound suppressors and allow mounting of Blank Firing Attachments (BFAs) for training exercises. Screw-on design for threaded barrels only. Includes crush washer.

- SPECS: Steel, Mil-Spec phosphate coating. 1 1/2" (4.4cm) long, 1/2" (19mm) diameter. 2.3 oz. (66g) wt. #100-002-070 Phantom Flash Suppressor, 9A20V95 \$ 29.95

PHANTOM 5C2 COMP/FLASH HIDER

Five, straight, longitudinal vents hide flash while dispersing gases up and outward to tame muzzle rise. No downward facing port helps eliminate dust signature when shooting in the prone position. Grooved, base rings accept training attachments and sound suppression devices for ILE and military personnel. Chisel-shaped, front notches keep muzzle planted on your attacker during CQB maneuvers. For threaded barrels only, includes crush washer.

- SPECS: Steel, Mil-Spec phosphate coating. 1 1/2" (4.4cm) long, 1/2" (19mm) diameter. 2.1 oz. (60g) wt. #100-002-071 Phantom 5C2 Comp/Flash Hider, 9A20V95 \$ 29.95

DPMS AR-15

LEVANG LINEAR COMPENSATOR

Reduces Muzzle Jump Without Hurting Ears

Directs all of the muzzle blast and noise away from your ears. Large, single expansion chamber helps control muzzle flip and recoil.

- SPECS: Steel, blue, matte finish. 2 1/2" (6.3cm) long, 3/4" (1.9cm) diameter, 1/2" (19mm) dia. #231-015-022 Linear Comp 3B21X95 \$ 39.95



**SMITH ENTERPRISE TACTICAL RIFLE
G6-A2 VORTEX FLASH HIDER**

Helical Flutes Dissipate Gas, Hide Muzzle Flash

Four, specially angled flutes hide nearly 100% muzzle flash, even during full auto fire, by dissipating gas and retaining unburned powder for increased residual burn. Constructed of the same 8620 bar stock steel used in the manufacture of AR-15/M16 bolts and carriers, then case-hardened to provide a high-strength core and tough, outer shell. Special, helix design helps align exiting barrel gas to improve accuracy with all bullet types.

- AR-15/M16 VORTEX - Skirt extension conceals gap between barrel shoulder and flash hider on AR-15, M16, and M4 rifles. Grooved base ring allows integration of Blank Firing Attachment (BFA) used by law enforcement trainers, and permits installation of military sound suppressors. Thread-on design requires no washer. Torque to 10 ft. lbs. maximum, self-tightens as weapon is fired. Use M-193, SS-109, American Eagle 55 gr. PMJ, and NATO spec ammunition for highest degree of flash suppression. Can be permanently attached to 14.5" long, M4 barrels for an overall length of 16.1". SPECS: 8620 steel, parkerized, black, matte finish. 1 1/2" (4.4cm) long, 5/8" (1.6cm) dia. 2.9 oz. (82g) weight. Fits AR-15, M16, and M4. #851-000-047 AR-15/M16 Vortex 1E41H97 \$ 51.99

- .308 VORTEX - Streamlined unit reduces muzzle flash with four, 15° helical flutes. Provides Vortex technology for Remington 700 Tactical and AR-10. SPECS: 8620 steel, parkerized, black, matte finish. 1 1/2" (4.4cm) long, 3/4" (1.9cm) dia. 3.9 oz. (112g) weight. Fits Rem 700 Tactical and AR-10 in .308 Win. #851-000-032 .308 Vortex Flash Hider 1E66C67 \$ 83.00

- M14/M1A VORTEX - Significantly reduces muzzle flash to help preserve your night vision. Provides highest degree of efficiency using NATO spec ammunition. Features four, 15° helical flutes with the sharp edges removed to reduce snagging. Install using the OEM, flash suppressor nut; requires no modifications to rifle. Fits M14 and M1A rifles. SPECS: 8620 steel, parkerized, black, matte finish. 3 1/4" (9.5cm) long, .900" (23mm) dia. 5.6 oz (158g) wt. Fits M14 and M1A. #851-000-035 M14/M1A Vortex 1E80C00 \$ 100.00

- M14/M1A DIRECT CONNECT VORTEX - Threaded, deep skirt design provides a clean-looking, direct connection to M14/M1A barrels. Self-lightening, helix design eliminates need for a lock washer. Requires removal of OEM front sight and replacement with Smith Enterprise M14/M1A Gas Cylinder Lock Sight Dovetail if front sight is desired. BFA and sound suppressor compatible for military and law enforcement use. SPECS: 8620 steel, parkerized, black, matte finish. .595" (32 tpi) 33/16" (8.1cm) long, .865" (22mm) dia. 4.1 oz (116g) wt. Fits M14 and M1A rifles. #851-000-060 M14/M1A Direct Connect Vortex, 1E67Z67 \$ 75.00

- M14/M1A GAS CYLINDER LOCK SIGHT DOVETAIL - Machined, steel, gas cylinder lock with milled dovetail allows you to mount an OEM or aftermarket front sight separate from the flash suppressor. The perfect choice when replacing the standard issue suppressor with a Smith Enterprise Direct Connect Vortex or other style flash hiders without an integral sight dovetail. Tined threads ensure proper alignment when fully tightened. Standard fits M14/M1A rifle with 22" barrel. Navy model fits Navy MK14 Model 0 rifle with 18" barrel. SPECS: 8620 steel, parkerized, black, matte finish. 1 1/2" (4.4cm) long, 1 1/4" (3.8cm) high. 1.3 oz (37g) wt. Available for standard and Navy model rifles. #851-000-058 Standard Gas Cylinder Lock, 1E66Z67 \$ 83.33
- #851-000-059 Navy Gas Cylinder Lock, 1E60Z00 75.00

AK-47/AKM FLASH HIDER - Designed for Kalishnikov-style rifles with 14x1mm Left-Hand barrel threads. Grooved base ring allows the use of a Blank Firing Adaptor (BFA) used by law enforcement trainers. Left-hand flutes will not come loose during sustained fire. SPECS: 8620 steel, Black, military magnesium phosphate finish. 14mm- 1.0LH thread. 2 3/16" (5.5cm) long, .860" (2.1cm) dia. 2.8 oz. (79g) weight. Fits all AK-47's chambered in 5.45mm M74, 5.56mm NATO and 7.62 M43 cal. #851-000-062 AK-47 Vortex Flash Hider 1E60Z00 . . \$ 75.00

FAL VORTEX FLASH HIDER - Rigid, unique Vortex helical flutes hide vibrant muzzle flash and is made especially for use on the 7.62 NATO (Metriol) FAL. Permits installation of .30 Direct Connect sound suppressors. SPECS: 8620 steel, Black, military magnesium phosphate finish. 9/16" x 24 tpi. 2 7/16" (6.1cm) long, .860" (2.1cm) dia. 3.1 oz. (87g) weight. #851-000-063 FAL Vortex Flash Hider 1E60A00 . . \$ 75.00

H&K 91 VORTEX FLASH HIDER - Fits the 7.62 NATO G3/HK91 rifle and has the same flash hiding capabilities found in all Vortex products which help improve overall accuracy. Enables use of .30 Direct Connect sound suppressor. SPECS: 8620 steel, Black, military magnesium phosphate finish. 15 x 1.0 Metric, right-handed thread. 2 11/16" (6.8cm) long, .860" (2.1cm) diameter. 3.4 oz. (96g) weight. #851-000-064 H&K 91 Vortex Flash Hider 1E60A00 \$ 75.00

**SMITH ENTERPRISE AR-15
POST-BAN COMPENSATOR**

Legal To Install On Non-Threaded Post-Ban Rifles



Installs quickly on post-ban AR-15 rifles with plain, non-threaded muzzles. Requires only minor modifications and can be removed in minutes. Easily controls muzzle flip and felt recoil for more accurate shooting and a faster follow-up shot. .701" model fits current production Colt Heavyweight Sporter Rifles. .731" model fits DPMS Sporter Rifles. Measure outside barrel diameter at muzzle and select correct brake.

- SPECS: Steel, blued, matte finish. 1" (2.5cm) OD, 2 1/4" (5.7cm) long. Includes locking screws. #851-116-701 .701" Post Ban Compensator, 1E16T72 \$ 44.68
- #851-116-731 .731" Post Ban Compensator 1E16T72 44.68

JP RECOIL ELIMINATOR

Wipes Out Recoil & Muzzle Lift

Dual, curved restrictor plates with a tremendous amount of surface area stop exiting barrel gases and pull the barrel forward to counteract recoil and muzzle flip. The front sight or scope stays right on target for a faster second shot, plus less felt recoil and shooter fatigue. AR-15 model threads onto standard 1/2"-28 tpi barrels; Post Ban AR-15 model is secured by pins to Colt or Bushmaster barrels with nominal .700"/.730" stepped O.D. Threaded Nut model can be fitted to barrels from .600" to .650" diameter, threaded 1/2"-28, in calibers up to .358.

SPECS: Steel, blued (Blue), matte. 1 1/2" (3.8cm) dia., 2 1/4" (5.7cm) long, 4 oz. (113g) wt. Exit hole must be opened up to .040" over bullet diameter.

STOCK #	FINISH/MODEL	PRICE
#452-015-120	Blue/AR-15	2E72C00 \$ 89.95
#452-015-121	Blue/Post Ban AR-15	2E72C00 \$ 89.95
#452-017-528	Blue/Tapered	2E68C00 \$ 84.95

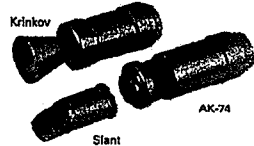
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... ONLY THE BEST ... PAGE 55

FA ENTERPRISES AK MUZZLE BRAKE



Reduces
Flash & Recoil

Russian military pattern provides effective flash and recoil control. For 7.62mm, pre-ban, AK-47 pattern rifles with 14mm-1.0 left-hand thread barrels. AK-74 splits the flash. Open chamber with 6 gas ports keeps muzzle rise to a minimum. Krinkov has two gas ports with a flash cone to redirect muzzle flash. Slant redirects muzzle gas to almost eliminate muzzle rise. SKS Adapter, non-permanent attachment to unthreaded barrels for muzzle brakes and flash hiders. 14mm-1.0 Tap cleans and restores threads, cuts new threads. 14mm-1.0 LH Die cuts 14mm-1.0, left-hand, metric barrel threads. Thread Alignment Tool aligns threading die to barrel.

hand thread barrels. AK-74 splits the flash. Open chamber with 6 gas ports with a flash cone to redirect muzzle flash. Slant redirects muzzle gas to almost eliminate muzzle rise. SKS Adapter, non-permanent attachment to unthreaded barrels for muzzle brakes and flash hiders. 14mm-1.0 Tap cleans and restores threads, cuts new threads. 14mm-1.0 LH Die cuts 14mm-1.0, left-hand, metric barrel threads. Thread Alignment Tool aligns threading die to barrel.

SPECS: Steel, blued finish. Threaded 14mm-1.0 LH. AK-74 - 2.8" (7.2cm) long. Krinkov - 3" (7.7cm) long. Slant - 1.5" (4cm) long. SKS Adapter fits barrels to .550" (14mm) O.D. 14mm-1.0 LH Die - HHS, 1 1/2" (3.8cm) diameter, 14mm-1.0 LH Tap - HHS, 3 3/8" (9.2cm) long, 3/8" shank.

- #246-199-001 AK-74 Muzzle Brake 6D17V25 \$ 21.50
- #246-199-002 Krinkov Muzzle Brake 6D15V34 19.17
- #246-199-003 Slant Muzzle Brake 6D11V75 14.50
- #246-199-004 SKS Muzzle Brake Adapter 6D14V82 .. 18.53
- #246-199-005 14mm-1.0 LH Threading Die, 6D33V50 42.00
- #246-000-010 14mm-1.0 LH Tap 6D35A97 44.95
- #246-199-006 Thread Alignment Tool 6D11V75 14.50

MILITARY RIFLE MUZZLE BRAKE - Machined

steel brake features two, large chambers with top ports to tame the recoil of full-power service ammunition. Takes the pain out of shooting; reduces muzzle climb for quicker follow-up shots. Two models fit a wide range of rifles. .223 Caliber is threaded 1/2"-28 with .250" exit hole. .30 Caliber is threaded 14mm-1.0 LH with .355" exit hole. Exit hole may be reamed to .45 caliber.

SPECS: Steel, blue, matte finish. 1 1/2" (3.8cm) diameter, 2" (5cm) long, 5 oz. (140 g).

- #246-000-022 .223 Caliber Military Brake, 6D39A95 \$ 49.95
- #246-000-023 .30 Caliber Military Brake 6D39A99 .. 49.95

SCHERER AK-47/AR-15 THREAD ADAPTER

Put Threaded Muzzle Brakes
On Non-Threaded Barrels



Steel adapter allows you to install muzzle brakes and flash hiders on tactical rifles with an unthreaded barrel. No machining necessary; four setscrews secure adapter to barrel in seconds. C-1 Adapter features 14mm-1.0 left-hand threads for 7.62x39 caliber AK-47 and SKS rifles. C-5 Adapter has 1/2"-28 threads for installation on Colt sporter and similarly contoured, AR-15 barrels.

SPECS: Steel, blued finish. C-1 - 1 1/2" (3cm) long, .552" (14mm) (I.D., .830" (21mm) O.D. Fits AK-47 and SKS. C-5 - 1 1/2" long, .708" (18mm) I.D., .978" (25mm) O.D. Fits Colt AR-15.

- #861-000-009 C-1 Thread Adapter 1F04Z00 \$ 5.25
- #861-000-012 C-5 Thread Adapter 1F05Z35 7.01

BROWNELLS AR-15/M16 PEEL WASHER

Easy, Precise Alignment Of Flash
Suppressors Or Muzzle Brakes

Mill-spec washers split apart to allow exact alignment of A2-style flash suppressors or other brakes that require indexing.

SPECS: Steel, Solid in pks of 5 each. Fits 1/2" O.D. threads.

- #078-015-005 Peel Washers 8G07Z87 \$ 12.60



TAPCO AK/AMD EXTENDED MUZZLE BRAKE



Drop-On Fit,
Maximum Gas Distribution

Machined from solid steel, brake significantly reduces muzzle lift and felt recoil by utilizing an inner expansion chamber for maximum gas distribution. Fits AK-style rifles with a threaded barrel and works perfectly with the M14-1, LH barrel thread system. Four ports shaped to effectively disperse gas and allow better control. Can be permanently attached to an AMD barrel to make the legal 16" length. Made in the USA.

SPECS: Steel, blued finish. 4 1/4" (10.8cm) long, 1" (2.5cm) diameter at tip of muzzle.

- #100-002-497 Extended Muzzle Brake 5A27H97 \$ 39.97

MASEN RUGER® RIFLE FLASH HIDER

No Gunsmithing Required For Effective Flash Reduction

Traps unburned particles of powder until full combustion is completed. Short - M16A1-style, extends 1 1/4". Long - Soviet, AKM-style, extra length, maximum "burn".

SPECS: Steel, blue (BL) or stainless steel (SS), matte finish. Short (SH) - 2 1/2" (6.3cm) long, .860" (21.8mm) dia. Long (LG) - 3 3/8" (8.5cm) long, .860" dia.

- #555-220-300 10/22 Short, Blue Flash Hider 6E11D00 \$ 15.95
- #555-220-400 10/22 Long, Blue Flash Hider 6E12Z85 18.50
- #555-220-301 10/22 Short, Stainless Steel Flash Hider 6E12Z85 17.95
- #555-220-401 10/22 Long, Stainless Steel Flash Hider 6E14Z50 20.50
- #555-000-001 Mini-14 LG, Stainless Steel Flash Hider 6E14C50 20.50
- #555-000-002 Mini-30 LG, Stainless Steel Flash Hider 6E16C75 25.00

BLACK WARRIOR MUZZLE BRAKE - Single expansion

chamber has a full circumference hole pattern that limits recoil and nearly eliminates muzzle flash. Adds extra muzzle weight for a more stable hold. Protective ears prevent bumps and dings from damaging sight blade. Replaces the front sight; attaches with front sight pin and locking set screw.

SPECS: Steel, black, matte finish or stainless steel, silver, matte finish. 5 1/2" (14cm) long, 6.4 oz. (180 g) wt. fits Mini-14, Mini-30 and Ranch Rifle.

- #555-000-006 Black Mini-14 Muzzle Brake, 6E33C50 \$ 41.95
- #555-000-007 Silver Mini-14 Muzzle Brake 6E35C50 43.95

SMITH ENTERPRISE M1 GARAND M1 MUZZLE BRAKE

Drop-On Comp Makes The
Mighty M1 Easier & More
Comfortable To Shoot



Dual chamber compressor greatly diminishes muzzle lift and felt recoil without changing the balance or feel of the rifle. A great device for introducing younger shooters to the M1 Garand. Easy to install, simply remove the gas cylinder lock and replace with this brake. Requires no permanent alterations to your prized rifle. Not legal for service rifle matches.

SPECS: Machined steel, manganese phosphate finish. 2 1/2" (6.3cm) long, .848" (21mm) diameter, 4.3 oz. (124 g) wt.

- #851-100-001 M1 Garand Muzzle Brake 1E60A00 \$ 75.00

SMITH ENTERPRISE M14/M1A MUZZLE BRAKE



Drop-On Recoil & Muzzle
Control; Fits Domestic &
Chinese M14/M1A's

Absolutely no gunsmithing required for amazing muzzle control and greatly reduced felt recoil, even on select-fire rifles. Changes the sharp recoil into a soft push. Easily replaces the issue flash hider without alterations and includes the front sight dovetail and castle nut set screw.

SPECS: Machined steel, manganese phosphate finish. 3" (7.6cm) long, .862" (21mm) diameter, 4.3 oz. (123 g) wt.

- #851-100-014 M14/M1A Muzzle Brake 1E80A00 .. \$ 100.00

DYNA SYSTEMS LTD. FN-FAL MUZZLE BRAKE DIE

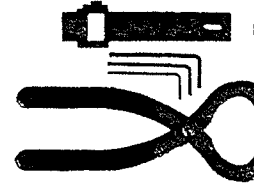
Cleans Or Cuts Threads On Metric Barrels

Cuts the correct, 1/4"-24, left-hand threads used on most metric pattern barrels. Use to clean up existing threads or cut new. Thread Alignment Tool aligns threading die to barrel. Helps prevent cross threading.

SPECS: Steel, 1 1/2" diameter, 1/4"-24 left hand.

- #246-100-000 FAL Muzzle Die 6D39V95 \$ 49.95
- #246-000-001 FAL Thread Alignment Tool 6D19A00 24.95

SPRINGFIELD ARMORY M1A MUZZLE BRAKE/STABILIZER



Diffuses Recoil;
Practice Shooting Longer
With Less Pain

All of the parts, tools and instructions necessary to replace the M1A flash suppressor with a recoil reducing muzzle brake/stabilizer. Combination of front baffles and side vent holes reduce felt recoil and muzzle rise, replaces the sharp kick with a gentle push. Features a solid bottom to prevent dust printing. Includes muzzle brake/stabilizer, hex wrenches and Castle nut pliers for quick and easy replacement.

SPECS: Steel, black, matte finish. 4 1/4" (10.7cm) long.

- #817-000-002 M1A Muzzle Brake/Stabilizer, 7A67Y00 \$ 89.00

HOLLAND QUICK DISCHARGE BRAKE

Multi-Chamber Design For Efficient
Muzzle Control Without
Excess Noise & Blast



Three expansion chambers provide up to 45% measured reduction in felt recoil. Triple baffle, exhaust slots redirect noise and muzzle blast away from the shooter. Gives high volume shooters a quiet sounding brake that's easy to clean. Closed bottom keeps exiting gas from blowing up dirt and debris. Tapered shank for easier fitting to different barrel diameters. Adds 1 1/4" to barrel length.

SPECS: 4340 chrome moly steel, Blue (BL) or 17-4 stainless steel (SS), matte finish. 2" (5cm) long, .850" (22mm) dia. BL 3/4"-28; 975" (24.7mm) dia, SS 1/2"-28; 9.80 (24.8mm) dia. Hardened to Rc 42.

- #403-000-002 BL 1/2"-28 QD Brake 3K63P50 \$ 90.00
- #403-000-020 SS 1/2"-28 QD Brake 3K63U50 90.00
- #403-000-009 BL 3/4"-28 QD Brake 3K63P50 90.00
- #403-000-021 SS 3/4"-28 QD Brake 3K63U50 90.00
- #403-000-003 BL 1/2"-28 QD Brake 3K71P00 95.50
- #403-000-004 BL 3/4"-28 QD Brake 3K71P00 95.50
- #403-000-005 SS 1/2"-28 QD Brake 3K71P00 95.50
- #403-000-006 SS 3/4"-28 QD Brake 3K71P00 95.50

EAGLE MINI-14/THIRTY® FLASH HIDER



Improves Sight Picture &
Reduces Muzzle Flash

Honed, "H&K" style, front sight provides improved sight picture and protects the blade from damage. Gets you on target faster for improved accuracy. Controls muzzle flash for better low light shooting. Replaces factory sight assembly and attaches with furnished roll pin and set screw, no permanent alterations to the gun.

SPECS: Body - Steel, matte black or matte silver (stainless) finish. 3.6" (9.2cm) long. Weighs 3.9 oz. (109 g). Sight - Aluminum, matte black or natural (stainless) finish. 5" (12.7mm) diameter aperture tapered post .22" (5.7mm) high. Includes wrench, roll pin, and instructions.

- #287-103-014 Black Mini-14 F/H 7H27T73 \$ 37.95
- #287-103-114 SS Mini-14 F/H 7H27T73 37.95
- #287-103-030 Black Mini-30 F/H 7H27T73 37.95
- #287-103-130 SS Mini-30 F/H 7H27T73 37.95

CHOATE MINI-14® FLASH SUPPRESSOR

Effective Flash Elimination;
No Gunsmithing Required



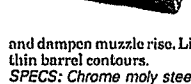
Vented chambers control muzzle flash for more accurate day time and low-light shooting. Replaces front sight with M14-style wing and post, slips over muzzle and is held by set screw.

SPECS: Steel, blued, matte finish. 1/4" (11mm) diameter, 3", (8.5cm) long.

- #159-070-712 Flash Suppressor 9E234V30 \$ 44.50

CFL MUZZLE BRAKE

Lowers Subjective Recoil



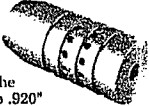
Single expansion chamber uses exiting gases to neutralize recoil and dampen muzzle rise. Lightweight, small-diameter to mate thin barrel contours.

SPECS: Chrome moly steel, CNC machined, heat treated. Centerless ground O.D. Polished and blued. 2 1/2" (6.3cm) long, .862" (21.8mm) dia. Exit hole is .242" (6mm) dia. Must be opened up to .020" over bullet dia. Max. exit hole is .328" dia. .30 caliber. Available in: .555" (14.1mm) O.D., 1/4"-28 thread; .61 (15.4mm) O.D., 1/2"-24 thread; .665" (16.8mm) O.D., 1/2"-24 thread.

- #208-001-555 Blue .555" LT Brake 8K78A58 \$ 97.0
- #208-001-610 Blue .610" LT Brake 8K78A58 97.0
- #208-001-655 Blue .665" LT Brake 8K78A58 97.0

VOLQUARTSEN RUGER® 10/22™ STABILIZATION MODULE

Clamp-On, Instant Muzzle Stability



Aligns exiting barrel gas so it surrounds and stabilizes the bullet for increased accuracy. Turned from lightweight aluminum so it won't change the balance or feel of your rifle. Clamps to .920" diameter bull barrels.

SPECS: Aluminum, silver anodized or black teflon. 2 1/4" (7cm) for 1.2" (3cm) outside diameter.

- #930-122-016 Silver Stabilization Mod 3Z38T60 \$ 48.00
- #930-122-015 Black Stabilization Module 3Z38T60 48.00

CALL OFTEN!!
We'll Be Your Warehouse
800-741-0015

OPS INC R3E2C MUZZLE BRAKE

Maximum Recoil Reduction With Reduced Blast

Large, expansion chamber with forward baffle, traps and reduces muzzle gases to greatly reduce muzzle rise and blast. Dust printing and muzzle rise are all but eliminated. Stainless steel construction for superior resistance to powder corrosion. For all calibers center bore is .030" over bullet diameter. May be gunsmith enlarged to larger diameter. Available with .575"-40 tpi; allows installation on smaller diameter, flange-tapered barrels that require a shallow thread depth to maintain maximum bore to O.D. wall thickness. We are the supplier to elite U.S. military forces.

Options: #304 stainless steel, polished finish, 2.6" (6.8cm) long, #1 - .750" (19.2mm) and .970" (2.5cm) diameter. Muzzle hole can be enlarged for other calibers.

STOCK #	CAL	THREAD	O.D.	PRICE
#904-100-022	.22	1/2"-28 tpi	.866" - 4K90A00	\$ 115.00
#904-000-001	.30	1/2"-28 tpi	.866" - 4K90P00	\$ 115.00
#904-000-002	.243	1/2"-28 tpi	.866" - 4K90P00	\$ 115.00
#904-000-004	.30	7/16"-24 tpi	.866" - 4K90P00	\$ 115.00
#904-100-030	.30	5/16"-40 tpi	.866" - 4K90A00	\$ 115.00
#904-000-010	.30	5/16"-40 tpi	.866" - 4K90P00	\$ 115.00
#904-000-011	.243	5/16"-40 tpi	.866" - 4K90P00	\$ 115.00
#904-000-012	.338	5/16"-40 tpi	.866" - 4K90P00	\$ 115.00
#904-000-013	.22	5/16"-40 tpi	.866" - 4K106U00	\$ 132.50
#904-000-014	.30	5/16"-40 tpi	.970" - 4K106A00	\$ 132.50
#904-000-015	.243	5/16"-40 tpi	.970" - 4K106A00	\$ 132.50
#904-000-016	.338	5/16"-40 tpi	.970" - 4K106A00	\$ 132.50

CLYMER MUZZLE BRAKE REAMER

Easily Reams Bore Exit Hole For Optimum Performance

Reams the compensator exit hole with the centerline of the bore to help prevent bullet tilt. Also cuts a 30° angle on the crown.

Options: Tool steel, 1.80" (4.6cm) cutting length, .250" (6.3mm) dia. drive shaft. Must be used in a lathe.

STOCK #	FITS BORE DIA.	STOCK #	FITS BORE DIA.
#184-320-022	.22 CF	#184-320-284	7mm
#184-320-243	6mm	#184-320-308	.30
#184-320-250	.25	#184-320-338	.338
#184-320-284	6.5mm	#184-320-375	.375
#184-320-270	.270	#184-320-458	.458

Advise # - Muzzle Brake Reamer - 11100XCH \$ 50.00

DLASK ARMS RIFLE MUZZLE BRAKE

Efficient Gas Flow Reduces Muzzle Lift & Felt Recoil

Multiple, radial ports plus 45° front ports almost eliminate felt recoil and muzzle rise. Includes a threaded muzzle cap. 250" bore exit holes must be opened up to .040" over bullet diameter. 886 in tapered at the rear, 885, 888 and 889 have .030" tpi.

Options: Machined steel, matte blue (MB), polished blue (PB) or stainless steel (SS). 2" (5.1cm) long. Diameters: 885 and 886 - .625" (15.8mm), 888 - .750" (19mm), 889 - .875" (22mm).

STOCK #	MB	STOCK #	PB	STOCK #	SS	MODEL	THREAD
#43-100-885	#253-101-885	#253-102-885	885	1/2"-28			
#43-100-886	#253-101-886	#253-102-886	886	5/16"-32			
#43-100-888	#253-101-888	#253-102-888	888	5/16"-32			
#43-100-889	#253-101-889	#253-102-889	889	5/16"-32			

Advise # - Blue R/I Muzzle Brake #885Y31 \$ 119.90
Advise # - SS R/I Muzzle Brake #8105704 \$ 134.68

SHREWD MUZZLE BRAKE

Ready-To-Fit Brakes Enhance Recoil Control

Multi-port brake softens and reduces recoil and muzzle flip. Multitude of gas dispersion holes have an offset pattern, and a 7° forward rake, that effectively moves blast and sound forward to provide maximum noise deflection. 22 caliber bore exit hole must be opened up to .020" over bullet diameter. Rear of comp can be tapered to blend with barrel contour. 865" Brake is correct outside diameter for Lone Eagle pistols. Furnished with a 6mm exit hole that can be opened up to .44 caliber.

STK #	CM	STK #	SS	MODEL	TPI
#860-100-028	#860-101-028	#01	1/16"-28		
#860-100-128	#860-101-128	#1	1/2"-28		
#860-100-228	#860-101-228	#2	1/2"-28		
#860-100-224	#860-101-224	#2	7/16"-24		
#860-100-324	#860-101-324	#3	7/16"-24		
#860-100-325	#860-101-325	#3	5/8"-24		
#860-100-424	#860-101-424	#4	7/16"-24		
#860-100-425	#860-101-425	#4	5/8"-24		
#860-000-001	#860-000-002	.866"	5/8"-24		

Advise # - Shrewd Muzzle Brake 6H15000 \$ 59.95
Advise # - CM 865" Muzzle Brake 6H13000 \$ 44.45
Advise # - SS 865" Muzzle Brake 6H10000 \$ 53.34

GENTRY "QUIET" BRAKE

Reduces Recoil & Muzzle Lift Without Increasing Muzzle Blast Or Noise

Neatly controls the ear-shattering muzzle blast by directing the gases, and noise, away from the shooter. Does not affect accuracy or velocity. Reduces recoil for comfort. Reduces muzzle rise for fast follow-up shots.

Options: Steel, Polished blue, matte blue or satin-finish stainless. 1.94" (49.3mm) long. No. 1 - .750" (19mm) O.D. 1/2"-28 thread. No. 2 - .750" O.D. 1/2"-28 thread. No. 4 - .875" O.D. 1/2"-28 thread 2 1/2 oz. (64 g). wt.

POLISHED BLUE "QUIET" BRAKE

STOCK #	MOD/CAL	STOCK #	MOD/CAL
#339-101-270	1 / .270	#339-102-323	2 / 8mm
#339-101-284	1 / 7mm	#339-102-338	2 / .338
#339-101-308	1 / .308	#339-102-358	2 / .358

Advise # - Pol. Blue "Quiet" Brake 9C75X00 \$ 90.00

MATTE BLUE "QUIET" BRAKE

STOCK #	MOD/CAL	STOCK #	MOD/CAL
#339-111-270	1 / .270	#339-111-308	1 / .308
#339-111-284	1 / 7mm	#339-111-458	4 / .458

Advise # - Matte Blue "Quiet" Brake 9C75X00 \$ 90.00

STAINLESS "QUIET" BRAKE

STOCK #	MOD/CAL	STOCK #	MOD/CAL
#339-201-270	1 / .270	#339-204-375	4 / .375
#339-201-284	1 / 7mm	#339-204-416	4 / .416
#339-201-308	1 / .308	#339-204-458	4 / .458
#339-202-338	2 / .338		

Advise # - SS "Quiet" Brake 9C81100 \$ 105.00

THREAD CAPS - Machined, knurled sleeve replaces the Quiet Brake for less length and weight. Protects threads.
Options: Steel, blue or stainless. 1" (12.7mm) long. .650" (16.5mm) O.D.

STOCK #	BLUE	STOCK #	STAINLESS	FITS	THREAD
#339-250-128	#339-251-128	1	1/2"-28		

Advise # - Gentry Thread Cap 9C15D00 \$ 60.00

VAIS RIFLE MUZZLE BRAKE

Superior Recoil Control; Muzzle Blast Reduction

An incredible maze of gas dispersing holes provides excellent relief from painful recoil with no increase in muzzle blast or excessive noise. Multiple venturi expansion chamber disperses and redirects muzzle gases to enhance effective recoil control. Unique design features attenuating holes that are both horizontal and perpendicular to the centerline of the bore to disperse muzzle blast and sound equally to all sides.

Options: Stressproof steel (CM), in the white, 416 stainless steel (SS), heat treated. 2" (5.1cm) long. #2 & #4 - .750" (19mm) diameter, 1/2"-32 tpi; #6 & #8 - .812" (21mm) diameter, 1/2"-32 tpi; #10 & #12 - .875" (22mm) diameter, 1/2"-32 tpi. Approx. 1.6 oz. (46 g) wt. Requires threading of barrel.

STOCK #	CM	STOCK #	SS	MOD/CAL
#927-150-243	#927-151-243	2 / 243		
#927-000-001	#927-000-002	2 / 6.5mm		
#927-150-257	#927-151-257	2 / 257		
#927-150-270	#927-151-270	2 / 270		
#927-150-284	#927-151-284	4 / 7mm		
#927-150-308	#927-151-308	4 / 308		
#927-150-338	#927-151-338	6 / 338		
#927-150-358	#927-000-003	6 / 358		
#927-150-375	#927-000-004	8 / 375		
#927-150-416	#927-000-005	10 / 416-416		
#927-150-458	#927-000-006	12 / 458		

Advise # - CM Muzzle Brake 7B70X00 \$ 94.80
Advise # - SS Muzzle Brake 7B88C67 \$ 101.40

VAIS MICRO-BRAKE - Same performance in a short, compact brake that looks "right" and saves weight on carbines or lighter rifles. .750" (19mm) O.D. can be turned down to .650" (16mm) to match thinner barrel contours.

Options: Stressproof steel (CM), in the white, 416 stainless steel (SS), heat treated. 1 1/4" (4.4cm) long. 1/2"-32 tpi. Requires threading of barrel.

STOCK #	CM	STOCK #	SS	MOD/CAL
#927-000-007	#927-000-009	.223		
#927-170-100	#927-170-101	.243		
#927-000-016	#927-000-020	6.5mm		
#927-000-017	#927-000-021	.257		
#927-000-018	#927-000-022	.270		
#927-000-019	#927-000-023	7mm		
#927-000-008	#927-000-010	.308		

Advise # - CM Micro-Brake 7B79X00 \$ 94.80
Advise # - SS Micro-Brake 7B84X60 \$ 101.40

SHREWD PRECISION VARMINT BRAKE

Reduced Recoil & Dust Printing

Single expansion chamber and 42 total ports, 21 on each side, angled 7° forward, provide maximum recoil control. Blast and sound are moved forward, away from the shooter. Non-vented top and bottom surfaces reduce muzzle rise while limiting dust signature. CNC machined for precise fit with very little finish work. Rear of comp can be tapered to conform to barrel. Bore exit hole must be opened up to .020" over bullet diameter.

Options: Chrome Moly In-the-white or Stainless Steel, natural finish. 2" (5.1cm) long 1" O.D. 3 thread sizes: 1/2"-28, 5/16"-24, 1/4"-20.

STOCK #	CM	STOCK #	SS	THREAD	SIZE
#860-110-050	#860-110-150	1/2"-28			
#860-110-056	#860-110-156	5/16"-24			
#860-110-062	#860-110-162	3/8"-24			

Advise # - CM Varmint Brake 6H16D67 \$ 59.95
Advise # - SS Varmint Brake 6H51D33 \$ 68.50

VAIS VARMINT BRAKE - Same performance in a larger, varmint weight contour. .875" (22mm) O.D. may be turned to .800" (20mm). Can be used on calibers from .223" up to .358". 1" Varmint Brake works well on large O.D. of 1" barrels; available in stainless steel, .224, 6mm, and 6.5mm.

Options: Stressproof steel (CM), in the white, 416 stainless steel (SS), heat treated. Requires threading of barrel. Varmint Brake is 1 1/2" (4.4cm) long; threaded 5/8"-32 tpi. 1" Varmint Brake is 2" (5.1cm) long; threaded 1/2"-24 tpi.

STOCK #	CM	STOCK #	SS	MOD/CAL
#927-160-223	#927-161-223	.223		
#927-160-243	#927-161-243	6mm		
#927-000-011	#927-000-013	6.5mm		
#927-000-012	#927-000-014	.257		
#927-160-284	#927-161-284	7mm		
#927-160-308	#927-161-308	.308		

Advise # - CM Varmint Brake 7B79H00 \$ 94.80
Advise # - SS Varmint Brake 7B86H67 \$ 101.40
#927-000-024 1" SS Varmint Muzzle Brake, .224, 7B97X50 \$ 117.00
#927-000-025 1" SS Varmint Muzzle Brake, .6mm, 7B97X50 \$ 117.00
#927-000-026 1" SS Varmint Muzzle Brake, .65mm, 7B97X50 \$ 117.00

.50 BMG BRAKE - Highly efficient, with six expansion chambers and forty-eight, large, gas ports that tame the mighty .50 BMG's "kick". Radial port design redirects muzzle gases away from the shooter to reduce the ear-shattering blast. Keeps muzzle rise to a minimum and reduces felt recoil to a level comparable to a magnum hunting rifle.

Options: 416 stainless steel, heat treated. 4" (10.2) long, 1 1/2" (3.8cm) dia. 1" x 24 tpi. 13.4 oz (380 g). Requires threading barrel.

#927-000-015 .50 BMG Muzzle Brake 7B167X00 \$ 195.00

QUE INDUSTRIES ADJUSTABLE MUZZLE BRAKE

Fine Tune Your Rifle For Less Recoil; Greater Accuracy

Licensed under the Browning BOSS System, barrel tuning muzzle brake controls harmonic vibration for consistent shot placement, plus gives up to a 40 percent reduction in felt recoil. Lets you fine tune the accuracy of your rifle by rotating the brake through the indexed stops till you find the point of harmonic balance that produces optimum accuracy. Installs in minutes with no barrel threading or modifications. Carefully measure barrel diameter 1/4" behind the muzzle, then order the appropriate size.

Options: 4140 steel, Blue, polished finish or Silver, stainless steel finish. Heat treated to Rc 50. Brake is 3 1/4" (8.3cm) long, 1" (2.5cm) in diameter. 5.4 oz. (153 g) wt.

STK#	BLUE	STK#	SILVER	SIZE	PRICE
#100-000-404	#100-000-416	.560"	4K151H96	\$ 189.95	
#100-000-821	#100-000-824	.570"	4K151X96	\$ 189.95	
#100-000-405	#100-000-417	.580"	4K151H96	\$ 189.95	
#100-000-406	#100-000-418	.590"	4K151H96	\$ 189.95	
#100-000-407	#100-000-419	.600"	4K151H96	\$ 189.95	
#100-000-408	#100-000-420	.610"	4K151H96	\$ 189.95	
#100-000-409	#100-000-421	.620"	4K151H96	\$ 189.95	
#100-000-410	#100-000-422	.630"	4K151H96	\$ 189.95	
#100-000-411	#100-000-423	.640"	4K151H96	\$ 189.95	
#100-000-412	#100-000-424	.650"	4K151H96	\$ 189.95	
#100-000-413	#100-000-425	.660"	4K151H96	\$ 189.95	
#100-000-414	NA	.670"	4K151H96	\$ 189.95	
#100-000-822	#100-000-825	.680"	4K151X96	\$ 189.95	
#100-000-823	#100-000-826	.690"	4K151X96	\$ 189.95	
#100-000-415	#100-000-427	.700"	4K151H96	\$ 189.95	

Orders/Tech: 800-741-0015

order on the web
www.brownells.com

BROWNELLS
... ONLY THE BEST ... PAGE 57

KDF MUZZLE BRAKE
Baffles & Chambers Arrest
Recoil & Muzzle Flip

Enjoy less felt recoil and a big reduction in muzzle flip provided by five baffles and five internal chambers. After installation, nominal .250" diameter bore exit hole is reamed for maximum recoil reduction and to prevent bullet hit (see reamers listed elsewhere). Precision machined from solid steel; sizes available to fit most popular barrel contours and calibers.

SPECS: CM steel, blue, matte finish. 2" (5cm) long. O.D.: #59 - .590" (15mm), #62 - .620" (15.7mm), #68 - .680" (17.2mm), #83 - .830" (21mm). Fits rifle muzzle diameters (DIA.) and maximum calibers (MAX. CAL) listed in chart.

STOCK #	MODEL/DIA.	MAX. CAL.	THREAD
#481-059-560	59/560"	.30	7/16"-28
#481-062-550	62/550"	8mm	1/2"-28
#481-062-570	62/570"	8mm	1/2"-28
#481-062-600	62/600"	8mm	1/2"-28
#481-062-620	62/620"	8mm	1/2"-28
#481-068-600	68/600"	.375	9/16"-24
#481-068-625	68/625"	.375	9/16"-24
#481-068-650	68/650"	.375	9/16"-24
#481-068-660	68/660"	.375	9/16"-24
#481-083-830	83/830"	.458	3/4"-24

— Advise # — KDF Muzzle Brake 1H104U00..... \$ 138.00

**ROCK RIVER ARMS AR-15
A-4 COLLAPSIBLE BUTTSTOCK**

Reduces Overall Length
For Easier Carry, Storage

Six-position, extendable stock lets you select the length of pull best suited to your shooting needs. Converts your rifle to A-4-style with the added benefit of shorter overall length. Requires no alterations; for pre-ban rifles only. Includes buffer tube, receiver lock plate, lock nut, rear sling swivel, recoil spring and buffer. Carbine spring and buffer also available separately.

SPECS: Zytel® nylon plastic stock and latch, matte black or matte green. Aluminum buffer tube. Length of pull: closed - 10 1/2" (26.2cm), extended - 13" (33cm).

#739-000-004 Black AR-15 A-4 Stock 9C65P00..... \$ 97.50
#739-000-008 Green AR-15 A-4 Stock 9C65P00..... 97.50
#739-000-005 AR-15 Carbine Spring 9C02P00..... 4.00

#739-000-006 AR-15 Carbine Buffer 9C08P52..... 11.35

**MASEN AR-15
RAISED CHEEKPIECE**

Improves Shooting Comfort, Accuracy



AR-15 Cheekpiece provides correct head position and eye alignment for scope sighted rifles. Clamps over A-1 and A-2 buttstocks, installs in minutes with no modifications to stock. Textured, matte-black surface blends well with stock. Soft rubber top section gives added comfort. Shorty Cheekpiece provides correct scope-to-eye alignment to AR-15 rifles with collapsible buttstock. Soft rubber cheekpad improves shooting comfort, gives 1/4" additional height.

Quick, snap-on installation.

SPECS: AR-15 Cheekpiece - Plastic, black, 6" (15.2cm) long. Raises height of comb 1 1/4" (3.2cm). Shorty Cheekpiece - Plastic, black, 5 1/4" (14.6cm) long.

#560-154-200 AR-15 Cheekpiece 6E20C00..... \$ 29.95
#560-154-300 Shorty Cheekpiece 6E16C00..... 24.95

GUNNERS CHOICE RECOIL REDUCER

Cuts Recoil & Muzzle Rise
With No Increase In
Muzzle Blast Or Noise;
Money-Saving Design



Single expansion chamber with multiple ports that interrupt and align exiting muzzle gases to increase accuracy and cut down on painful recoil. Elliptical, rear, exhaust holes force hot, expanding, muzzle gases forward, away from the shooter's face and ears for no increase in total noise to the shooter. All models feature a .250" diameter exit hole and tapered design (except the 4S); you can stock fewer recoil reducers and save inventory dollars. Simply open up the exit hole to .040" over bullet size and face back the taper at the rear of the comp to match the barrel diameter during installation. Slim-Line (SL) models are smaller in diameter to blend perfectly on thin, ultra-light, mountain rifle barrels.

SPECS: Machined steel, blued or stainless (SS), satin finish. 3" (7.6cm) long. Diameters: ACS/ACSS .750" (19mm); ASL/ASSL, 1SL/1SSL, .750" (19mm); AS/ASS, .888" (21mm), 1S/1SS, 2S/2SS, .872" (22.1mm); 3S/3SS, .875" (22.2mm); 4S/4SS, .995" (25mm). Adds approximately 2 1/2" (5.7cm) to barrel length. .250" diameter exit hole must be reamed or bored .040" over bullet dia. Includes instructions. Installation requires threading of barrel.

STK # BLUED	STK # SS	MODEL	THRD	FITS BBL DIA.
#762-111-437	#762-121-437	ACS/ACSS	7/16"-28	.450" thru .610"
#762-111-500	#762-121-500	ASL/ASSL	1/2"-28	.510" thru .650"
#762-111-562	#762-121-562	1SL/1SSL	9/16"-18	.545" thru .680"
#762-110-500	#762-120-500	AS/ASS	1/2"-28	.540" thru .680"
#762-110-552	#762-120-552	1S/1SS	9/16"-18	.585" thru .680"
#762-110-525	#762-120-525	2S/2SS	3/4"-18	.640" thru .710"
#762-110-775	#762-120-775	3S/3SS	3/4"-16	.782" thru .830"
#762-110-900	#762-120-900	4S/4SS	3/4"-16	.990" thru 1"

— Advise # — Blue Recoil Reducer 2F68P00..... \$ 82.95
— Advise # — Stainless Recoil Reducer, 2F69U00..... 84.95

THREAD CAP - Machined, deeply knurled sleeve replaces a Gunner's Choice Recoil Reducer when you want to save weight and length. Protects the threads against damage.
SPECS: Machined steel, blued or stainless (SS), matte finish. .500" (12.7mm) long.

STK # BLUE	STK # SS	O.D.	THREAD
#762-130-128	#762-131-128	.510"	7/16"-28
#762-130-228	#762-131-228	.575"	1/2"-28
#762-130-118	#762-131-118	.640"	9/16"-18
#762-130-328	NA	.640"	9/16"-28
#762-130-218	#762-131-218	.700"	3/4"-18
#762-130-116	#762-131-116	.835"	3/4"-16
#762-130-216	NA	1.015"	3/4"-16

— Advise # — Blue Thread Caps 2F11U00..... \$ 15.95
— Advise # — Stainless Thread Caps 2F12U00..... 16.95

J.P. ENTERPRISES AR-15

LAMINATED THUMBHOLE STOCK

New Color, New Lower Price
The Ultimate Stock
For Scoped AR-15 Rifles



Thumbhole stock with target-style pistol grip fully supports the firing hand and trigger finger; improves trigger and recoil control. Monte Carlo, rollover cheekpiece places the eye at correct height for flattop receivers equipped with scopes. Highly-contoured, laminated hardwood, resists changes in temperature and humidity. Fits standard receivers with rifle-length, extension tube. May require minor fitting and bedding. Completely finished.

SPECS: Laminated hardwood, Midnight Gray, black/natural/gray. 14" (35.5cm) length of pull. 34.4 oz. (979g) wt. Includes rubber recoil pad and complete installation instructions.

#452-015-150 Midnight Gray Stock 2E180C00... \$ 199.95

**ROCK RIVER ARMS AR-15
M4 STOCK WRENCH**

Install M4 Carbine Stocks
Without Damage



lets you easily remove our old extension tube and install a new-style, A4 stock. Spanner has three lugs to fit the A4-style castle nut. Provides a non-slip fit so you can correctly torque the stock to the receiver. Also, the comfortable, rubber coated handle features a cutout to fit the receiver extension tube to remove the A1 or A2 stock.

SPECS: Steel, perkerized finish. 7 1/4" (19.3cm) long.
#739-000-010 M4 Stock Wrench 9C05P33..... \$ 8.00

**DPMS M4
CHEEK REST**

Raises Eye Level
With Little Additional Weight



Super-tough, snap-on cheekpiece installs instantly on CAR-15 collapsible stock to raise your eye to the proper sighting position. Snaps into place with no tools or modifications to the stock. Lightweight plastic construction stands up to rugged tactical situations. Storage compartment holds spare supplies.

SPECS: Plastic, black, 5.5" (12.5cm) long. Fits Rock River "Ribbed" CAR-15 collapsible stock ONLY.

#231-000-192 M4 Cheek Rest 1C27Y36..... \$ 34.95

**DPMS/CHEROKEE AR-15/M16
CAR-15 CHEEKPIECE**

Proper Eye Relief For CAR-15'S



Instantly gives correct eye-relief and cheek support for scoped, CAR-15 rifles equipped with collapsible buttstocks. Provides 1 1/2" additional height for proper scope-to-eye alignment. No permanent alterations to the buttstock.

SPECS: Plastic, black, 5 1/2" (12cm) long, 3 1/2 oz. (99 g) wt. Fits collapsible buttstocks with 1 1/4" (3.1cm) minimum O.D. tubes.

#231-115-101 CAR-15 Cheekpiece 1C25Y00..... \$ 33.95

CVT AR-15 ADJUSTABLE CHEEKPIECE

Provides Correct Head Alignment On Scoped Rifles

Rugged Kydex and CNC machined aluminum cheekpiece attaches easily and provides proper head position and eye to scope alignment. Adjusts easily with included wrench and can be collapsed to use iron sights. No permanent modifications to stock needed. Back plate is drilled to accept recoil pad.

SPECS: Kydex, CNC machined aluminum. Black. Adjusting wrench included.
#137-000-012 Adjustable Cheekpiece 7C85X00... \$ 119.95

BROWNELLS

Gift Certificate

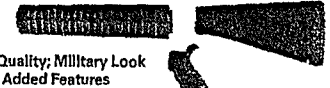


When that special occasion arrives, and you don't know which of our many unique items to give, give a Brownells personalized Gift Certificate.

Whether it's for a birthday, Christmas, or the opening of a new shop, you'll be giving just exactly what your favorite gun "tinkerer" wants.

#084-900-000 Brownells Gift Certificate, 6D00HYG..... \$ Your Choice \$

**CAVALRY ARMS
AR-15 FURNITURE**



Mil-Spec Quality; Military Look
With Added Features

Tough, injection-molded, fiber-glass/polymer AR-15 furniture gives your AR-15 an authentic military look. Comes in O.D. Green, Black, or Coyote (tan). Rugged handguards give a positive grip and an internal heat shield protects your hand from a hot barrel; comes in your choice of rifle or carbine. Traditional-length stocks feature an easy-to-open storage compartment for emergency field tools and parts; fit both A1 and A2. SOCOM/M4 Carbine Buttstock collapses to save space, or accommodate shooters wearing body armor; replacement only, fits existing carbine extension tubes. Ergo-Grips are extremely rigid and durable with hand-filling contours that give you a comfortable, steady hold. Available in sets or individually.

SPECS: Plastic, green, black, or tan, matte finish. Rifle handguard - Approximately 12" (30.5cm) long, 2 1/2" (6cm) external diam. at widest point, 2" (5.1cm) external diameter at smallest point. Carbine handguard - Approximately 6 1/2" (16.8cm) long, 2 1/2" (6cm) external diameter at widest point, 2 1/2" (5.5cm) external diameter at smallest point. Rifle Buttstock - 9 3/8" (23.8cm) long, 5" (12.7cm) high at tallest point, 2 1/4" (5.4cm) high at shortest point, 1 1/4" (4.1cm) wide. "SOCOM/M4 Carbine Telescoping Buttstock" - 6 3/4" (17.1cm) long, 5 1/4" (13.8cm) high. Buttstock only, does not include extension tube. Grip - 4 1/2" (11.1cm) high, 2" (5.1cm) wide, 1 1/4" (3.2cm) thick. Grips fit both rifle and carbine. Available in sets or individually.

STOCK #	COLOR	STYLE	PART	PRICE
#100-000-947	Green	Rifle	3-Piece Set	2K87P52 \$ 102.97
#100-000-938	Green	Rifle	Handguard	2K28P00 \$ 35.00
#100-000-940	Green	Rifle	Stock	2K40P50 \$ 45.00
#100-000-949	Green	Carbine*	3-Piece Set	2K97U52 \$ 102.97
#100-000-942	Green	Carbine	Handguard	2K28P00 \$ 35.00
#100-000-944	Green	Carbine*	Stock	2K36P00 \$ 45.00
#100-000-946	Green	Rifle/Carbine	Ergo-Grip	2K25P20 \$ 28.00
#100-000-948	Black	Rifle	3-Piece Set	2K87U52 \$ 102.97
#100-000-937	Black	Rifle	Handguard	2K24P00 \$ 30.00
#100-000-939	Black	Rifle	Stock	2K40P50 \$ 45.00
#100-000-950	Black	Carbine*	3-Piece Set	2K87U52 \$ 102.97
#100-000-941	Black	Carbine	Handguard	2K28P00 \$ 35.00
#100-000-943	Black	Carbine*	Stock	2K36P00 \$ 45.00
#100-000-945	Black	Rifle/Carbine	Ergo-Grip	2K18P90 \$ 21.00
#100-000-966	Coyote	Rifle	3-Piece Set	2K83U14 \$ 97.50
#100-000-961	Coyote	Rifle	Handguard	2K24U00 \$ 30.00
#100-000-962	Coyote	Rifle	Stock	2K36U00 \$ 45.00
#100-000-967	Coyote	Carbine*	3-Piece Set	2K87U14 \$ 102.10
#100-000-963	Coyote	Carbine	Handguard	2K31U50 \$ 35.00
#100-000-964	Coyote	Carbine*	Stock	2K36U00 \$ 45.00
#100-000-965	Coyote	Rifle/Carbine	Ergo-Grip	2K18U90 \$ 21.00

*Carbine Buttstock is a replacement only that fits existing carbine extension tubes. An extension tube is NOT included.



**BROWNELLS AR-15
CAR-15 RECEIVER END PLATE**

Maintains Proper Alignment
Of Stock & Buffer Tube

M4-style receiver plate includes the engagement tab required to align the buttstock and buffer tube with the lower receiver on carbine models. Precision, fineblanking process ensures precise edges and superior flatness for correct fit and solid installation.

SPECS: Steel, black oxide finish.
#080-000-290 CAR-15 Receiver End Plate, 8K03P98..... \$ 4.97

1 PROOF OF SERVICE

2 STATE OF CALIFORNIA

3 COUNTY OF LOS ANGELES

4 I, Claudia Ayala, am employed in the City of Long Beach, Los Angeles County, California. I
5 am over the age eighteen (18) years and am not a party to the within action. My business address is
6 180 East Ocean Blvd., Suite 200, Long Beach, California 90802.

6 On January 8, 2007, I served the foregoing document(s) described as

7 **PLAINTIFFS' EVIDENCE IN OPPOSITION TO DEFENDANTS'**
8 **MOTION FOR SUMMARY JUDGMENT, OR ALTERNATIVELY, FOR**
9 **SUMMARY ADJUDICATION ON PLAINTIFFS' FIRST AMENDED COMPLAINT**

9 on the interested parties in this action by placing
10 [] the original
11 [X] a true and correct copy
12 thereof enclosed in sealed envelope(s) addressed as follows:

11 Douglas J. Woods
12 Attorney General's Office
13 1300 'T' Street, Ste. 125
14 Sacramento, CA 94244-2550

14 (BY MAIL) As follows: I am "readily familiar" with the firm's practice of collection and
15 processing correspondence for mailing. Under the practice it would be deposited with the U.
16 S. Postal Service on that same day with postage thereon fully prepaid at Long Beach,
17 California, in the ordinary course of business. I am aware that on motion of the party served,
18 service is presumed invalid if postal cancellation date is more than one day after date of
19 deposit for mailing an affidavit.

17 Executed on January 8, 2007, at Long Beach, California.

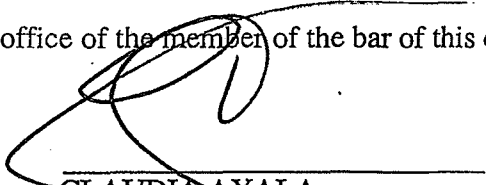
18 (PERSONAL SERVICE) I caused such envelope to be delivered by hand to the offices of the
19 addressee.

20 X (OVERNIGHT MAIL) As follows: I am "readily familiar" with the firm's practice of
21 collection and processing correspondence for overnight delivery by UPS/FED-EX. Under the
22 practice it would be deposited with a facility regularly maintained by UPS/FED-EX for
23 receipt on the same day in the ordinary course of business. Such envelope was sealed and
24 placed for collection and delivery by UPS/FED-EX with delivery fees paid or provided for in
25 accordance with ordinary business practices.

25 Executed on January 8, 2007, at Long Beach, California.

26 X (STATE) I declare under penalty of perjury under the laws of the State of California that the
27 foregoing is true and correct.

28 (FEDERAL) I declare that I am employed in the office of the member of the bar of this court
at whose direction the service was made.



CLAUDIA AYALA