

Description

This invention relates to an inhibitor particularly adapted to be used for decreasing the deleterious effects in the surrounding atmosphere from detonation of a bomb and, accordingly, decreasing the likelihood of injury to persons in the vicinity as well as decreasing the damage caused to surrounding property by a bomb blast.

In this specification it is to be understood that the term "bomb" is used in a broad sense and includes hand grenades, limpet mines and any other types of bomb which can be detonated by a timing device, a remote control device or by any other initiator.

Bombs of one form or another are increasingly being used by terrorists, alleged freedom fighters, as well as other persons to cause destruction of property and loss of life such as in urban or other terrorist activities. Often bombs are discovered in abandoned suitcases, briefcases or the like or hand grenades can be hurled at different targets. Such bombs can sometimes be defused but often this is not possible in the time available.

It is an object of this invention to provide an inhibitor whereby the devastating effects in the surrounding atmosphere from detonation of a bomb can be substantially decreased both insofar as the effect on persons and surrounding property is concerned.

US-A-4543872, which forms a basis for the preamble of claim 1, discloses an inhibitor comprising a container and a dispersable force-dissipating medium, the inhibitor being deployable by placement of the container with respect to a bomb on a surface on which the bomb is supported, and said container being flexible and inflatable and comprising a sidewall portion extendable over a predetermined depth and substantially annularly to provide an enclosure.

US-A-232640 and EP-A-01427217 show examples of other bomb blast control devices. However, these devices are directed at increasing the explosive effect of detonations.

According to the present invention there is provided an inhibitor for decreasing the deleterious effects in the surrounding atmosphere from detonation of a bomb, comprising a container and a dispersable force-dissipating medium, the inhibitor being deployable by placement of the container with respect to a bomb on a surface on which the bomb is supported, and said container being flexible and comprising a sidewall portion extendable over a predetermined depth and substantially circumscribing an enclosure, characterised in that said container further comprises a lid portion supported by said sidewall portion and extending therebetween to provide a cover over said enclosure,

and in that said force-dissipating medium comprises a liquid (as defined herein) and is containable within the sidewall and lid portions of the container itself, whereby when the container is in place with respect to a bomb, the bomb is located within said enclosure and is hence substantially surrounded by said force-dissipating medium.

It is to be understood that the term "liquid" as used herein is intended to include any suitable non-inflammable liquid or semi-liquid such as suitable gels. Generally the "liquid" will include at least a substantial proportion of water.

Further features of the invention provide for the liquid to be water or an aqueous solution; for the container to be flexible and to be "inflated" with said liquid, the container preferably being made of resilient material; for the container to be firstly erected by inflating it with air and thereafter displacing the air with said liquid; and for the container to be maintained substantially out of physical contact with the bomb, at least in certain selected cases.

Further features of the invention provide for the container to be made of cut sheets of flexible material joined together along seams to define the sidewall and lid portions; for the cut sheets of flexible material to be initially uncured or partially cured rubber material stacked together with interposed release sheets or layers therebetween covering areas not to be secured together and wherein the entire stack of sheets is then cured to secure the sheets together in areas not covered by the release sheets; and for the container to be formed into a plurality of generally interconnected compartments.

Still further features of the invention provide for the container to comprise a first and operatively upper compartment forming a top to the inhibitor and a second and lower compartment extending around at least a part of the periphery of the upper compartment to form a sidewall for the inhibitor; for a plurality of compartments to be arranged in a vertically stacked relationship to define a sidewall of the inhibitor; for the compartments to be interconnected; and for an inlet valve for liquid to be provided in an operatively lower region of the containers and an outlet, generally in the form of a relief valve, in an operatively upper region.

It is an important feature of the invention, although not entirely a necessity, that the containers be provided with handles for manipulating same, particularly in the case where relatively small size containers are provided for the smaller range of bombs such as hand grenades and limpet mines. Such smaller range of inhibitors are generally permanently inflated with liquid and sealed in a closed condition so that they are permanently ready for use. Such filling can conveniently be achieved us-

ing a tubular needle passed through a flexible container wall with the resultant hole being sealed off after the predetermined quantity of liquid has been introduced into the container.

The invention still further provides a method of manufacturing an inhibitor substantially as described hereunder.

Various different embodiments of the invention will now be described with reference to the accompanying drawings in order that the invention made more fully understood.

In the drawings:

- Figure 1 - is a sectional elevation of an inhibitor according to the invention particularly adapted for use on hand grenades;
- Figure 2 - is an isometric top view of the inhibitor illustrated in figure 1;
- Figure 3 - is a section taken through one side of the inhibitor illustrated in figure 1 with the inhibitor in the collapsed condition and illustrating the manufacture thereof;
- Figure 6 - is an isometric illustration of a very much larger inhibitor according to the invention for use on relatively large bombs;
- Figure 7 - illustrates in cross-section the upper portion of a section of the wall of the inhibitor illustrated in figure 6;
- Figure 8 - is a schematic cross-sectional elevation of apparatus illustrating the method of manufacture of an inhibitor;
- Figure 9 - illustrates in schematic sectional elevation a still further embodiment of the invention; and
- Figure 10 - illustrates in plan view an alternative shape to the inhibitor of figures 6 and 7.

Referring firstly to figures 1 to 3, there is illustrated an inhibitor particularly adapted for use in diminishing the deleterious effects in the surrounding atmosphere from detonation of a hand grenade. In this case, the inhibitor, generally indicated by the numeral 1, comprises an upper compartment 2, forming a lid or top to the inhibitor and conveniently being of circular shape, and a lower compartment 3, of annular shape extending around the circumference of the lid and permanently secured thereto.

Each of the upper and lower compartments are defined by sheets of elastomeric material, in particular butyl rubber, the sheets being secured together along seams to define the compartments.

Thus, the upper compartment is defined by an upper rubber sheet 4 and a lower rubber sheet 5,

secured together at a seam around the periphery 6 thereof.

The lower compartment 3 is similarly formed by an upper sheet 7 of rubber material and a lower sheet 8, in this case the sheets being of annular shape secured together at their inner and outer peripheries. The upper sheet 7 of the lower compartment and the lower sheet 5 of the upper compartment are also secured together over a substantial proportion of the juxtaposed surfaces but not at the inner region 9. The outer reasons 10 of such juxtaposed surfaces are, however, secured together. The reason for the former is to enable the lower compartment to inflate adequately in an axial direction so that the space 11 in the centre of the inhibitor can accommodate a hand grenade 12 therein.

The top is also provided with a handle 13 made of nylon reinforced butyl rubber whereby the inhibitor can be manipulated.

It has been found that the size of the inhibitor should be made such that it can accommodate approximately 4,0 kilograms of water.

The above described inhibitor is made by stacking the sheets of material together, as shown more clearly in figure 3, as well as the handle, but with release sheets interposed between the sheets of partly or fully uncured rubber in areas where the sheets are not to be secured to each other.

Thus, a first release sheet 14, of circular shape, is introduced between the sheets 4 and 5 forming the upper compartment the release sheet terminating short of the periphery, as indicated by numeral 15, so that the peripheral seam 6 can be formed between the two butyl rubber sheets 4 and 5. Similarly, a release sheet 16 is introduced between the sheets 7 and 8 forming the lower compartment, this release sheet being of annular shape. A further release sheet 17 is employed in the region 9 where the periphery of the second compartment is not to be secured to the undersurface of the upper compartment 2.

Instead of a release sheet to prevent the handle 13 from becoming adhered to the top sheet 4 of the upper compartment, a stainless steel plate 18 is positioned between the handle and the top sheet 4, the stainless steel plate allowing only the ends 19 of the handle to contact the said top sheet 4. Materials other than stainless steel could also be used for this purpose.

The above described stack of sheets is positioned between a flexible diaphragm 20 (see figure 8) and a rigid, heated, mould plate 21, the diaphragm being urged towards the mould plate 21 by virtue of compressed air introduced into a chamber 22 formed on the said of the diaphragm 20 remote from the mould plate 21. This arrangement enables the varying thickness of the stack of sheets of

material to be accommodated and all the required uniting of the sheets of material together along seams or the like to take place as the rubber is cured or fully cured. After curing has taken place the stainless steel plate is removed to free the handle over the major portion of its length.

In order to fill the above described inhibitor a tubular needle 23 (see figure 1) is simply passed through the appropriate sheets of rubber material such that the lower compartment is firstly filled with water and the needle is thereafter withdrawn a short distance and the upper compartment is then filled by passing water through the needle.

Conveniently the needle is introduced beneath the handle and a hot rubber patch 24 is employed to permanently seal the hole made by the needle. Thus, the above described inhibitor is permanently inflated and ready for immediate use at all times.

It has been found that an inhibitor of the above described type, and which is made to accommodate 4.0 kilograms of water, is adequate to reduce the deleterious effects in the surrounding atmosphere of a hand grenade blast, of the most severe type of which applicant is aware, by 85 per cent.

An alternative form of inhibitor for limpet mines and, in fact, for "pipe bombs" is one in which a simple rectangular container is provided with a peripherally extending second chamber defining a surrounding "sidewall" as in the case of the first described embodiment. The resultant inhibitor is simply a rectangular and larger version of the embodiment of figures 1 to 3.

Referring now to figures 6 and 7, there is illustrated an inhibitor according to this invention which is designed for use on substantially larger bombs. In this case the inhibitor would be too cumbersome to be fully "inflated" with water and, accordingly, is generally stored in an uninflated condition.

The inhibitor in this case has a top 32, once more formed of two sheets of rubber material secured together at the periphery, and the top is, in this case, supported by a series of vertically stacked chambers 33 which are interconnected by holes 34 both with each other and with the top.

The assembly and manufacture is conducted in the same way using release sheets 35 in zones which are not to be secured together and thus forming the series of tubular chambers 33 supporting the top 32.

The shape of this inhibitor is a U-shape in plan view so that a bomb, for example situated against the wall, can be substantially enclosed with the wall forming the one side of the enclosure. However, as a separate unit 36, there is provided a fourth wall to complete the rectangle, the unit 36 having a very shallow U-shape in plan view to co-operate with the free-end 37 of the sidewall of the main unit 38.

Both of these units have inlet valves 39 at the bottom thereof and outlet relief valves 40 at the top.

In order to erect an inhibitor of this type air is firstly introduced through the inlets 39 to inflate the inhibitor and, once inflated, water is then introduced through the inlets 39 at a substantially higher pressure. This causes displaced air to escape through the outlet relief valves 40 as the inhibitor fills with water.

In the case of the outlet relief valve 40 of the main unit 38, this valve can be made to be manually openable if it is desired that the top 32 be deflated, for example to enable a demolition expert to gain access to a bomb covered by the inhibitor. When using this embodiment of the invention the second unit 36 could, where a bomb is located against a wall, be positioned on the opposite side of the wall to assist in reducing the deleterious effects in the surrounding atmosphere of an explosion.

It will be understood that numerous other embodiments of the invention are possible within the scope hereof, the above simply being illustrative. Simply by way of example, as illustrated in figure 9, where it is required to maintain a flexible container out of contact with a bomb, a rigid liner 41 could be provided on the inside of the flexible container which, in this case, is shaped to a truncated conical shape.

Also, by virtue of the flexible nature of the containers, it is possible to make a container of an annular shape in plan view as illustrated in figure 10 where the annulus is incomplete and has two ends 42, which can simply be moved apart to operatively install the inhibitor relative to a bomb.

It has been found, in use, that upwards of 85 per cent of the deleterious effects in the surrounding atmosphere from detonation of a bomb are dissipated by the use of a correct amount of liquid, in particular water. The shock wave and "fire-ball" generally associated with the explosion of a bomb has been observed not to develop when an appropriate size of inhibitor according to this invention is employed.

Other variations clearly include the use of different materials of manufacture, different methods of manufacture as well as different shapes and sizes of containers. Also, the containers could be rigid, flexible but not resilient or any combination thereof.

Claims

1. An inhibitor for decreasing the deleterious effects in the surrounding atmosphere from detonation of a bomb, comprising a container (1, 36, 38) and a dispersable force-dissipating me-



material to be accommodated and all the required uniting of the sheets of material together along seams or the like to take place as the rubber is cured or fully cured. After curing has taken place the stainless steel plate is removed to free the handle over the major portion of its length.

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The inhibitor in this case has a top 32, once more formed of two sheets of rubber material secured together at the periphery, and the top is, in this case, supported by a series of vertically stacked chambers 33 which are interconnected by holes 34 both with each other and with the top.

The assembly and manufacture is conducted in the same way using release sheets 35 in zones which are not to be secured together and thus forming the series of tubular chambers 33 supporting the top 32.

The shape of this inhibitor is a U-shape in plan view so that a bomb, for example situated against the wall, can be substantially enclosed with the wall forming the one side of the enclosure. However, as a separate unit 36, there is provided a fourth wall to complete the rectangle, the unit 36 having a very shallow U-shape in plan view to co-operate with the free-end 37 of the sidewall of the main unit 38.

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It has been found, in use, that upwards of 85 per cent of the deleterious effects in the surrounding atmosphere from detonation of a bomb are dissipated by the use of a correct amount of liquid, in particular water. The shock wave and "fire-ball" generally associated with the explosion of a bomb has been observed not to develop when an appropriate size of inhibitor according to this invention is employed.

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Claims

1. An inhibitor for decreasing the deleterious effects in the surrounding atmosphere from detonation of a bomb, comprising a container (1, 36, 38) and a dispersable force-dissipating me-



- dium, the inhibitor being deployable by placement of the container with respect to a bomb (12, 30) on a surface on which the bomb is supported, and said container being flexible and comprising a sidewall portion (3, 33, 36) extendable over a predetermined depth and substantially circumscribing an enclosure (11), characterised in that said container (1, 36, 38) further comprises a lid portion (2, 32) supported by said sidewall portion (3, 33, 36) and extending therebetween to provide a cover over said enclosure (11), and in that said force-dissipating medium comprises a liquid and is containable within the sidewall and lid portions of the container itself, whereby when the container is in place with respect to a bomb, the bomb is located within said enclosure and is hence substantially surrounded by said force-dissipating medium.
2. An inhibitor as claimed in claim 1 in which the container is made of cut sheets (4,5,7,8,27,28) of flexible material joined together along seams (6,29) to define a closed container.
 3. An inhibitor as claimed in claim 2 in which the cut sheets of flexible material are an initially uncured or partially uncured rubber material stacked together with release sheets (14,15,16,17,18,35) or layers therebetween in areas not to be secured together and the stack of sheets is then cured to secure the sheets together in areas not covered by the release sheets or layers.
 4. An inhibitor claimed in claim 2 or claim 3 in which the container is formed into a plurality of compartments (2,3,32,33) for said liquid.
 5. An inhibitor as claimed in claim 4 in which a first and operatively upper compartment (2,32) forms a top to the inhibitor and a second and lower compartment (3,33) extends around at least a part of the periphery of the upper compartment and forms a supporting sidewall for the inhibitor.
 6. An inhibitor as claimed in claim 5 in which the second compartment is supported operatively a third and still lower compartment (33) to define a sidewall in the form of a plurality of vertically stacked compartments.
 7. An inhibitor as claimed in any preceding claim in which an inlet valve (39) for air and liquid is provided in an operatively lower region of the container and an outlet (40) in an operatively upper region.
 8. An inhibitor as claimed in any preceding claim and having one or more handles thereon for manipulating same.
 9. An inhibitor as claimed in claim 8 and comprising a single compartment container of sufficiently flexible material to enable it to deform to accommodate a predetermined maximum size of bomb when placed thereover and containing liquid.
 10. An inhibitor as claimed in any one of claims 3 to 9 wherein the container is permanently filled with a predetermined charge of liquid and is sealed in a closed condition.
 11. An inhibitor as claimed in claim 10 in which a tubular needle is passed through the container wall to introduce the liquid and the resultant hole is sealed off after introduction of the liquid is complete.
 12. An inhibitor as claimed in any preceding claim in which the body is firstly erected by inflating it with air and thereafter the air is displaced by way of an outlet by introduction of said liquid.

Patentansprüche

1. Schutzvorrichtung zur Milderung der schädlichen Auswirkungen der Detonation einer Bombe in der umgebenden Atmosphäre, mit einem Behälter (1,36,38) und einem dispergierbaren kraftaufzehrenden Medium, welche Schutzvorrichtung zum Einsatz gebracht werden kann, indem der Behälter in bezug auf eine Bombe (12,30) auf einer die Bombe tragenden Oberfläche aufgestellt wird, wobei der Behälter flexibel ist und einen über eine vorgegebene Tiefe erstreckbaren und einen Hohlraum (11) im wesentlichen umschließenden Seitenwandteil (3,33,36) aufweist, dadurch gekennzeichnet, daß der Behälter (1,36,38) weiterhin einen Deckelteil (2,32) aufweist, der auf dem Seitenwandteil (3,33,36) abgestützt ist und sich zwischen diesem erstreckt, um eine Abdeckung über dem Hohlraum (11) zu bilden, und daß das kraftaufzehrende Medium eine in den Seitenwand- und Deckelteilen des Behälters selbst aufzunehmende Flüssigkeit aufweist, wobei, wenn der Behälter in bezug auf die Bombe positioniert ist, die Bombe sich in dem Hohlraum befindet und somit im wesentlichen von dem kraftaufzehrenden Medium umgeben ist.
2. Schutzvorrichtung nach Anspruch 1, bei der der Behälter aus zugeschnittenen Bögen



- (4,5,7,8,27,28) eines flexiblen Materials hergestellt ist, die längs Nähten (6,29) miteinander verbunden sind, um einen geschlossenen Behälter zu bilden.
3. Schutzvorrichtung nach Anspruch 2, bei der die zugeschnittenen Bögen des flexiblen Materials aus zunächst unvulkanisiertem oder teilweise vulkanisiertem Gummimaterial bestehen und unter Zwischenfügung von Trennblättern (14,15,16,17,18,35) oder -schichten in den nicht aneinander zu befestigenden Bereichen übereinandergestapelt sind und der Stapel von Bögen dann vulkanisiert wird, um die Bögen in den nicht durch Trennblätter oder -schichten abgedeckten Bereichen aneinander zu befestigen.
4. Schutzvorrichtung nach Anspruch 2 oder 3, bei der der Behälter in mehrere Abteile (2,3,32,33) für die Flüssigkeit aufgeteilt ist.
5. Schutzvorrichtung nach Anspruch 4, bei der ein erstes und im Betrieb oberes Abteil (2,32) ein Oberteil der Schutzvorrichtung bildet und ein zweites und unteres Abteil (3,33) sich um wenigstens einen Teil des Umfangs des oberen Abteils erstreckt und eine tragende Seitenwand der Schutzvorrichtung bildet.
6. Schutzvorrichtung nach Anspruch 5, bei der das zweite Abteil sich im Betrieb auf einem dritten, noch tieferen Abteil (33) abstützt, so daß eine Seitenwand in der Form mehrerer vertikal übereinandergestapelter Abteile gebildet wird.
7. Schutzvorrichtung nach einem der vorstehenden Ansprüche, bei der ein Einlaßventil (39) für Luft und Flüssigkeit in einem im Betrieb unteren Bereich des Behälters und ein Auslaß (40) in einem im Betrieb oberen Bereich vorgesehen ist.
8. Schutzvorrichtung nach einem der vorstehenden Ansprüche, mit ein oder mehreren daran angebrachten Handgriffen zur Handhabung derselben.
9. Schutzvorrichtung nach Anspruch 8, mit einem ein einziges Abteil bildenden Behälter aus hinreichend flexiblem Material, so daß er sich verformen kann, um eine vorgegebene Bomben-Maximalgröße aufzunehmen, wenn er über dieser angeordnet ist und Flüssigkeit enthält.

10. Schutzvorrichtung nach einem der Ansprüche 3 bis 9, bei der der Behälter ständig mit einer bestimmten Füllmenge an Flüssigkeit gefüllt und in einem geschlossenen Zustand versiegelt ist.
11. Schutzvorrichtung nach Anspruch 10, bei der eine rohrförmige Nadel durch die Behälterwand geführt wird, um die Flüssigkeit einzuführen, und das entstehende Loch nach dem Einführen der Flüssigkeit vollständig versiegelt wird.
12. Schutzvorrichtung nach einem der vorstehenden Ansprüche, bei der der Körper zunächst durch Aufblasen mit Luft aufgerichtet und danach beim Einleiten der Flüssigkeit die Luft durch einen Auslaß verdrängt wird.

Revendications

1. Inhibiteur pour réduire les effets nuisibles de la détonation d'une bombe, dans l'atmosphère environnante, comprenant un conteneur (1, 36, 38) et un milieu de dissipation de puissance dispersable, l'inhibiteur étant déployable par mise en place du conteneur par rapport à la bombe (12, 30) sur une surface sur laquelle la bombe est posée, et ledit conteneur étant souple et comprenant une partie formant paroi latérale (3, 33, 36) expansible sur une profondeur prédéterminée et délimitant sensiblement une enceinte (11), caractérisé en ce que ledit conteneur (1, 36, 38) comprend en outre une partie formant couvercle (2, 32) supportée par ladite partie formant paroi latérale (3, 33, 36) et s'étendant entre elle pour créer une enveloppe au-dessus de ladite enceinte (11), et en ce que ledit milieu de dissipation est constitué d'un liquide et peut être contenu à l'intérieur des parties formant paroi latérale et couvercle du conteneur lui-même, ce par quoi, quand le conteneur est en place par rapport à la bombe, la bombe est logée à l'intérieur de ladite enceinte et, de ce fait, est sensiblement entourée par ledit milieu de dissipation de puissance.
2. Inhibiteur selon la revendication 1, dans lequel le conteneur est fait de feuilles découpées (4, 5, 7, 8, 27, 28) de matière souple, reliées ensemble le long de jonctions (6, 29) pour définir un conteneur fermé.
3. Inhibiteur selon la revendication 2, dans lequel les feuilles découpées de matière souple sont faites d'une matière à base de caoutchouc non vulcanisé ou partiellement non vulcanisé à l'origine, empilées ensemble avec entre elles



- des feuilles, ou couches, d'isolation (14, 15, 16, 17, 18, 35) dans des zones à ne pas fixer ensemble et dans lequel l'empilage de feuilles est alors vulcanisé pour fixer les feuilles ensemble dans les zones non recouvertes par les feuilles, ou couches, d'isolation. 5
4. Inhibiteur selon la revendication 2 ou la revendication 3, dans lequel le conteneur est formé de plusieurs compartiments (2, 3, 32, 33) pour ledit liquide. 10
5. Inhibiteur selon la revendication 4, dans lequel un compartiment supérieur (2, 32) forme de façon fonctionnelle un couvercle sur l'inhibiteur et un second compartiment inférieur (3, 33) s'étend autour d'au moins une partie de la périphérie du compartiment supérieur et forme une paroi latérale de support pour l'inhibiteur. 15 20
6. Inhibiteur selon la revendication 5, dans lequel le second compartiment est supporté de façon fonctionnelle sur un troisième et encore inférieur compartiment (33) pour définir une paroi latérale sous forme de plusieurs compartiments empilés verticalement. 25
7. Inhibiteur selon l'une quelconque des revendications précédentes, dans lequel un ajutage d'entrée (39) pour l'air et le liquide est situé de façon fonctionnelle sur une zone inférieure du conteneur et une sortie (40) est située dans une zone fonctionnelle supérieure. 30
8. Inhibiteur selon l'une quelconque des revendications précédentes et ayant une ou plusieurs poignées pour le manipuler. 35
9. Inhibiteur selon la revendication 8 et constitué d'un conteneur à un seul compartiment de matière suffisamment souple pour le rendre capable de se déformer pour recevoir une taille maximale prédéterminée de bombe lorsqu'il est placé sur celle-ci et contient du liquide. 40 45
10. Inhibiteur selon l'une quelconque des revendications 3 à 9, dans lequel le conteneur est rempli de façon permanente avec une charge prédéterminée de liquide et est scellé en situation fermée. 50
11. Inhibiteur selon la revendication 10, dans lequel une aiguille tubulaire est passée à travers la paroi du conteneur pour introduire le liquide et le trou qui en résulte est refermé après la fin de l'introduction du liquide. 55
12. Inhibiteur selon l'une quelconque des revendications précédentes dans lequel le corps est tout d'abord dressé en le gonflant à l'air et après cela l'air est évacué à travers une sortie par l'introduction dudit liquide.