

Patent Business Translation

Demolition Charge Having Multi-Primed Initiation System

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The WOW

Identify UNIQUE FEATURES of the Innovation. "If you're not meaningfully unique, you better be cheap!"

1. In one sentence what is the innovation?

The invention is an environmentally sealed, universal container designed to house explosive materials that will maintain reliable initiation with low output detonators in extreme weather conditions.

2. Technically, what is the most exciting thing about the innovation?

The most exciting thing about this invention is the universal nature of the demo charge. The system is capable of being initiated by a variety of initiation systems or devices, reducing the occurrence of not having the right components to create the explosion. In addition, the demolition charge having a multi-primed initiation system has the ability to string multiple charges together, with only one detonator cord and blasting cap. More simply stated, the charges are primed with a common detonating cord strung through them requiring only one blasting cap.

3. Technically, what is novel and not obvious about the innovation?

The novelty of the invention is the reliability of the system and its robust performance. Of the thousands of systems fielded by the U.S. Military, there have been no documented failures.

4. What product or service does your innovation enable that wasn't possible before?

This invention allows for the reliable detonation of insensitive explosives in extreme temperatures. In cold weather the output of most explosives are diminished and the explosive chemicals becomes more stable thereby requiring a larger detonator. The Demo-charge's system allows for low output initiators and insensitive explosives in all weather conditions.

Additionally, the system can be used with various types of initiator systems. This feature permits the system to be truly "UNIVERSAL" when applied to different demolition or deconstruction applications.

This invention allows for the design of detonation systems utilizing a single blasting cap. A system can be configured by stringing multiple demo boxes (satchel charges) on one blasting cap or detonation cord.

5. What does your innovation enable that will most frustrate the competition?

This invention enables faster setup and increased reliability. The system can be configured by stringing multiple demo boxes (satchel charges) on one blasting cap or detonation cord which significantly reduces the risk of failure and setup time. It has the flexibility to be prepackaged with blasting accessories in a housing that can also contain explosives.

6. What are you most proud of?

The most proud aspect of the invention is its ability to be utilized with different initiator systems which lets you change the intended use of the system to any type of blasting or demolition requirement.

7. What have you spent the most time on?

The aspect of the invention that has required the most time to address is the design feature that allows for the environmentally sealed explosive to accurately and reliably detonate via low output detonators in extreme temperature conditions.

8. How does your innovation enable GREEN ECONOMY opportunities? (i.e. sustainability, efficiency, recycle, reusable, etc...)

In addition to protecting its contents, the fully enclosed container protects the external environment from leaking hazardous materials that may be contained within the explosives. When the explosive detonates, there is limited release of explosive dust and there will be less clean-up of hazmat material required.

Features to Benefits

Turn Features into Overt Benefits.

Explore potential Benefit promises

What is most unique about the Innovation is ...	Why should I (the Customer) care?
Multi initiator configuration	Versatility of initiators allows you to change intended use of the blast or detonation
Reduced blasting caps required	Decreased risk of accidental detonation due to the volatility of sensitive, low output detonators
System is environmentally sealed	Outside environmental elements will not contaminate the explosive system, and conversely the system does not pose a hazard to the environment during storage
Multi primed initiation system	Reliable and complete detonation of all explosive material when configured in a multi-explosive detonation
Single initiator system configuration	Decreased preparation and system installation times
Less explosive dust	There is improved clean-up of hazmat materials; less clean-up leads to reduced clean-up cost and better compliance with OSHA and EPA regulations
Pre-installation of blasting accessories prior to site preparation	Increases ease of use and reduces setup time required at the demolition site or out in the field
Can be stored for decades without diminishing effectiveness	Inventory will not become obsolete

Connect the Dots

Write overt benefits to a final decision maker.

Explore all potential final decision maker options.

The most exciting overt benefit of the innovation is ...	Final decision maker who will find this benefit most valuable is ... (Customer, Consumer, Buyer)
Has versatility of initiators which permits you to change intended use of the detonation system	Demolition Site Manager
Decreased risk of accidental detonation	Site Safety Manager
Outside environmental elements will not contaminate the explosive	Demolition Site Foreman
Reliable and complete detonation	Demolition and Safety Managers
Decreased preparation time	Site Foreman, Project Manager
There is improved clean-up of hazmat materials; less clean-up leads to reduced clean-up cost and better compliance with OSHA and EPA regulations	Demolition Project Manager
Inventory will not become obsolete	Demolition Products Distributor/Manufacturer
Quick installation and site preparation	Demolition Site Manager, Project Manager
Less overhead cost with one product line	Demolition Products Distributor/Manufacturer, Demolition/Deconstruction Company

Prove It!

Help potential final decision makers to believe.

Explore potential methods to help final decision maker to believe.

Tell the Truth...	This unrivaled system is universal because it has the ability to string multiple charges together on one detonator cord and allows for a variety of initiation systems or devices. The setup time is quicker because it has the ability to be prepackaged with blasting accessories prior to site preparation.
Testimonials	Fielded by the U.S. Military and approved by the Weapons Safety Explosives Review Board.
Data/Test Results	Designed and tested to meet the Mil-Standard 3318215. Thousands have been procured by the U.S. Military with no documented failures. It has also passed stringent testing to become Final Type qualified.
Guarantee	Guaranteed complete detonation of explosives that may be configured in a multi-explosive system utilizing various low output initiators.
Pedigree	Professional Engineer, Eric Scheid of NSWC Crane Division, has well over 20 years of demolition reliability and configuration experience in military and demolition applications.

Name Game

Identify brand names and product/services descriptions. Successful Brand Names are suggestive of the benefit

Explore other potential names and product/services.

Product/Service Name (Suggestive of Benefit)	Product/Service Descriptor
Bombeasy	Satchel Charge
Allshot	Single Initiator Complete Detonation System
EasyDet	Prepackaged Multi-Primed Detonation System
Universal Initiation	Multi-Primed Detonation System
All-in	Complete Multi-Explosive Detonation System
PureDet	Single Initiator Comprehensive Detonation System
FailFree	Reliable Multi-Explosive Detonation System
One-shot-box	Single Blasting Cap Explosive System

Keywords

Identify keywords that will help a stranger find the innovation when searching.

Explore other potential keywords.

Adjective/Verb (Improvement)	Noun (Name of Innovation)	Final Decision Maker (Use)
Universal	Demo-charge	Demolition Systems
Adaptable	Universal Box	Surface Mining Company
Quicker	Bomb-in-a-box	Building Demolition Company
Versatile	Satchel charge	Mining Blasting Company, Demolition Products Distributor/Manufacturer
Safer	Multi-Charge Demo-Box	Demolition Site Manager
Easy to use	Common Box	Demolition/Deconstruction Manager
Cost efficient	Universal Demo-Box	Demolition Products Distributor/Manufacturer, Demolition Projects Manager
Fast	Installation	Site Preparation Manager
Reliable	Multi-primed initiation system	Demolition Foreman

One Sentence

Describe the dramatic difference of the innovation in one sentence. (Use numbers and other overt benefits to describe innovation)

Explore other potential dramatic differences.

Dramatic Difference Sentence Statement
One Demo-box, multiple uses
A universal Demo-charge for all your demolition needs
Big explosion, less risk
A single Demo-Charge for any application
Replace multiple products with one universal demo box meeting virtually all of your clients' needs
Easy to use common box for safe site preparation and use
Half the time, all the bang
Saves time and money! Increases Safety!!
Get more bang for your buck!
Replace multiple products that require different initiators with one universal demo-charge system

Successful Concepts - A

Final Decision Maker	Demolition Site Manager
Concept Name Descriptor	AllShot Single Initiator Complete Detonation System
Keyword Statement	Universal demo-charge system for demolition or site deconstruction
Headline <i>One sentence to state the uniqueness of the offering</i>	Replace multiple products that require different initiators with one universal demo-charge system
Benefit Paragraph <i>Description of what's in it for the final decision maker</i>	This demo-charge system allows for versatility of adaption to multiple initiators and blasting caps which lets you change the intended use of the blast. The ability to configure the system with one initiator also greatly decreases the risk of accidental detonation due to the sensitivity of low output initiators.
Real Reason To Believe Paragraph <i>Explains how your offering can deliver on the promise</i>	This unrivaled system is universal because it can be configured by stringing multiple charges together with only one low output initiator, and allows for a variety of initiation systems or devices to be utilized in the overall detonation system design. The ability to use less blasting caps and a single detonation cord greatly decreases the risk of accidental detonation.
Second Credibility Paragraph <i>Additional sources & information to backup the promise</i>	The Demo-Charge system was designed and tested to meet the Mil-Standard 3318215. Thousands have been procured by the U.S. Military with no documented failures. It has also passed stringent testing to become Final Type qualified and approved by the Weapons Safety Explosives Review Board.
Abstract <i>Six sentences or less description of concept</i>	AllShot is a universal Demo-charge for demolition or site deconstruction. This truly universal system has the ability to string multiple charges on one detonator cord. Its versatility allows for the use of a variety of initiators and explosives, meaning the system can be used in virtually any demolition application. Allshot's ability to initiate the system with a single blasting cap greatly decreases the risk associated with accidental detonation of sensitive explosive materials. Even better, AllShot can provide a solution to replacing multiple products with one demo-charge box capable of meeting all of your explosive requirements.

Successful Concepts - B

Final Decision Maker	Demolition Foreman
Concept Name Descriptor	FailFree Reliable Multi-Explosive Detonation System
Keyword Statement	Quick and reliable multi-primed initiation system for demolition applications
Headline	Big explosion, less risk
Benefit Paragraph <i>Description of what's in it for the final decision maker</i>	This unrivaled demo charge system will keep your project on time with fast and easy installation, while providing reliable detonation.
Real Reason To Believe Paragraph <i>Explains how your offering can deliver on the promise</i>	Our system is quicker because it has the ability to string multiple charges together on one detonator cord and allows for a variety of initiation systems or devices. Since the system is capable of being initiated by a variety of initiation systems or devices, the occurrence of not having the right components to create the explosion is reduced. FailFree has the flexibility to be prepackaged with blasting accessories in a housing that can also contain explosives, decreasing installation time. The ability to use only one detonator cord and blasting cap reduces the risk of initiation failure providing for a more reliable detonation. Outside environmental elements will not contaminate the explosive allowing for a pure detonation.
Second Credibility Paragraph <i>Additional sources & information to backup the promise</i>	The Demo-Charge system was designed and tested to meet the Mil-Standard 3318215. Thousands have been procured by the U.S. Military with no documented failures. It has also passed stringent testing to become Final Type qualified and approved by the Weapons Safety Explosives Review Board.
Abstract <i>Six sentences or less description of concept</i>	FailFree is a fast and reliable multi-primed initiation system for virtually any demolition application. The setup is quicker and easier than the competition because it has the ability to string multiple charges together on one detonator cord and allows for a variety of initiation systems or devices. Since the system is capable of being initiated by a variety of initiation systems or devices, the occurrence of not having the right components to create the explosion is reduced. FailFree has the flexibility to be prepackaged with blasting accessories in a housing that can also contain explosives, decreasing installation time. The ability to use only one detonator cord and blasting cap reduces the risk of initiation failure providing for a more reliable detonation. Outside environmental elements will not contaminate the bomb allowing for pure detonation. Use this product for half the time and all the bang!

Successful Concepts - C

Final Decision Maker	Demolition/Deconstruction Manager
Concept Name Descriptor	EasyDet Prepackaged Multi-Primed Detonation System
Keyword Statement	Use this trouble- free common box for demolition or deconstruction
Headline <i>One sentence to state the uniqueness of the offering</i>	Half the time, all the bang
Benefit Paragraph <i>Description of what's in it for the final decision maker</i>	This unrivaled demo charge system will keep your project on time for less with quick and easy installation.
Real Reason To Believe Paragraph <i>Explains how your offering can deliver on the promise</i>	Our system is quick and easy to use because it has the ability to string multiple charges together on one detonator cord and allows for a variety of initiation systems or devices. Since the system is capable of being initiated by a variety of initiation systems or devices, the occurrence of not having the right components to create the explosion is reduced. To make it even simpler, EasyDet has the flexibility to be prepackaged with blasting accessories in a housing that can also contain explosives.
Second Credibility Paragraph <i>Additional sources & information to backup the promise</i>	The Demo-Charge system was designed and tested to meet the Mil-Standard 3318215. Thousands have been procured by the U.S. Military with no documented failures. It has also passed stringent testing to become Final Type qualified and approved by the Weapons Safety Explosives Review Board.
Abstract <i>Six sentences or less description of concept</i>	Our system is quick and easy to use because it has the ability to string multiple charges together on one detonator cord and allows for a variety of initiation systems or devices. Since the system is capable of being initiated by a variety of initiation systems or devices, the occurrence of not having the right components to create the explosion is reduced. To make it even simpler, EasyDet has the flexibility to be prepackaged with blasting accessories in a housing that can also contain explosives. Get better results with less setup time.

Successful Concepts - D

Final Decision Maker	Demolition products Manufacturer
Concept Name Descriptor	One-shot-box Single Blasting Cap Explosive System
Keyword Statement	Cost efficient universal box for demolition manufacturers
Headline <i>One sentence to state the uniqueness of the offering</i>	Replace multiple products with one universal demo box meeting virtually all of your clients' needs
Benefit Paragraph <i>Description of what's in it for the final decision maker</i>	Meet all of your clients' demolition needs with one product. Increase your return and reduce your costs with this all in one demo charge system.
Real Reason To Believe Paragraph <i>Explains how your offering can deliver on the promise</i>	Your clients will value this unrivaled system because it has the ability to string multiple charges together on one detonator cord and allows for a variety of initiation systems or devices. It has the flexibility to be prepackaged with blasting accessories in a housing that can also contain explosives. The One-shot-box is less costly because you'll be able to sell your entire inventory without it becoming obsolete. Save even more with less product lines, resulting in lower overhead.
Second Credibility Paragraph <i>Additional sources & information to backup the promise</i>	The Demo-Charge system was designed and tested to meet the Mil-Standard 3318215. Thousands have been procured by the U.S. Military with no documented failures. It has also passed stringent testing to become Final Type qualified and approved by the Weapons Safety Explosives Review Board.
Abstract <i>Six sentences or less description of concept</i>	One-shot-box is a cost efficient, universal box for demolition manufacturers. Your clients will value this unrivaled system because it has the ability to string multiple charges together on one detonator cord and allows for a variety of initiation systems or devices. It has the flexibility to be prepackaged with blasting accessories in a housing that can also contain explosives. Even better, you will be able to sell your entire inventory without it becoming obsolete. Save even more with less product lines, resulting in lower overhead. Increase your return and reduce your costs with this all in one demo charge system that meets all of your clients' needs.