Vigilancia Tecnológica

Reporte, Julio 2017

Cliente: ENAEX S.A.

TECHNOLOGY FORECASTING REPORT

WWW.EASYPATENTS.CL

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Índice general

1. Introducción

El presente Informe es una vigilancia de las solicitudes de patente y modelo de utilidad que se han presentado ante la WORLD INTELLECTUAL PROPERTY ORGANIZATION (WIPO) utilizando el TRATADO DE COOPERACIÓN EN MATERIA DE PATENTES (PCT) y con prioridad vigente para entrar a los siguientes países resaltados en azul. Lista completa al final del Informe con fecha de entrada en vigencia del Tratado.

2. Metodología

Una vez realizado el procedimiento PCT ante la WIPO, el solicitante tiene el derecho a la solicitud de exclusividad de comercialización, distribución, importación, fabricación y uso del producto o proceso en cada uno de los países suscritos al acuerdo en un plazo de 30 meses desde la fecha de solicitud PCT o prioridad.

A continuación se informan las solicitudes de patentes de invención y modelos de utilidad través del título, resumen, fecha de publicación, fecha de solicitud, inventores y solicitantes obtenidas en relación al producto EXPLOSIVO PX asociados a las palabras clave [’HOLLOW’, ’EXPLOSIVE’, ’CONIC’, ’BOOSTER’, ’SHAPED’, ’CHARGE’, ’HOLLOW’, ’CHARGE’] de ENAEX S.A. y que han sido publicados en el período correspondiente al plazo máximo de prioridad 1 DE JUNIO AL 30 DE JUNIO.

3. Resultados

A continuación se mostrarán los 10 resultados más relevantes de la búsqueda, en caso de existir, el resto de los resultados pueden ser vistos en anexos.

1- **Número de publicación:** WO2015179698A2
Fecha de publicación: 26 de Jan de 2015
Fecha de oposición: 26 de Jul de 2017
Abstract: an apparatus and method for locking a detonating cord against a shaped charge .

2- **Número de publicación:** WO2013158520A1
Fecha de publicación: 24 de Jan de 2013
Fecha de oposición: 25 de Jul de 2015
Abstract: a charge and sync cable (c) includes a generally hollow , semi-flexible conduit (12) for positioning and supporting a mobile device at a desired location and orientation. the conduit contains a pair of conductors (18) and has a first connector (11) rigidly affixed at one end of the conduit and a second connector (10) rigidly affixed at the other end of the conduit. the first connector may be a male usb connector and the second connector may be an apple dock connector, a mini usb connector or a micro usb connector. alternatively, the male usb connector may electrically couple to an input jack of a central hub (16) and may have a connecter (13), adapter (14) or mobile accessory (15) at the other end. alternatively, the cable may include an adapter (30) for a standardized cable having male usb connectors at each end to electrically couple to a

mobile device having a different type of connector.

3- **Número de publicación:** WO2013088090A1
Fecha de publicación: 20 de Jan de 2013
Fecha de oposición: 21 de Jul de 2015
Abstract: the invention relates to a charge for a munition (10), comprising an explosive charge (40), an inert charge (50) and at least one pyrotechnique transmission unit (60) designed to transmit a remote-initiated detonation to said explosive charge (40). the invention also relates to a munition incorporating such a charge , said munition (10) comprising an elongate hollow body (12) able to house the explosive charge (40) and the inert charge (50), and a firing device (20), at least part of the inert charge (50) being interposed between the firing device (20) and said explosive charge (40), and the pyrotechnic transmission unit (60) being provided with a pyrotechnic extension (64) and coupling the firing device (20) to the explosive charge (40) in such a way as to allow the explosive charge to be primed to detonate under the action of the firing device (20).

4- **Número de publicación:** WO2016099588A1
Fecha de publicación: 23 de Jan de 2016
Fecha de oposición: 23 de Jul de 2018
Abstract: a hookah-themed electronic device mimics a traditional coal and water based hookah in appearance via a hookah- shaped body. power sources are housed inside the hookah- shaped body and used to provide current to attached cartomizers or vaporizers. attachments are enabled by hoses which engage with a female socket on the hookah- shaped body and provide an adapter at a second end for receiving the cartomizer, with power being transmitted through the hose. a switch is provided on the hose for completing or breaking an electrical connection between an attached cartomizer and the power sources. several circuits are integrated into the invention, including a voltage- control circuit for adjusting voltage output, a power-charging circuit for recharging the power sources, and a power-remaining sensor circuit for monitoring the remaining charge of the power sources. decorative elements further simulating non-electronic hookahs are also provided, mimicking effects such as the glow of coals.

5- **Número de publicación:** WO2016073390A1
Fecha de publicación: 12 de Jan de 2016
Fecha de oposición: 12 de Jul de 2018
Abstract: a charge r (310) is described that is adapted to simultaneously charge a pair of portable devices (360, 370), such as an audio input/output earpiece and a portable host device with which the audio input/output earpiece communicates wirelessly. in some cases, the charge r includes spaces that are sized and shaped to receive the portable devices of the pair.

6- **Número de publicación:** WO2011044126A2
Fecha de publicación: 14 de Jan de 2011
Fecha de oposición: 14 de Jul de 2013
Abstract: a training cartridge projectile for use in either a plastic cartridge case or a conventional metal cartridge case is disclosed containing no explosive material. the projectile includes an insert having a body portion and a front end, a container overmolded onto the body portion, a frangible ogive fastened to the front end, and a payload module within the ogive in front of the container carrying a non- explosive signature material for providing a visual indication of projectile impact to an observer upon projectile impact with an object. the module includes a hollow frangible ampoule containing the signature material, and a generally disc shaped base member engaging the insert and closing the ampoule. the base member preferably has a set of axially extending vanes engaging the signature material during spin-up as the projectile is accelerated through the bore of the weapon firing the projectile.

7- **Número de publicación:** WO0221068A2
Fecha de publicación: 14 de Jan de 2002
Fecha de oposición: 14 de Jul de 2004
Abstract: this invention relates to a charge of ammunition (10). the charge of ammunition (10) is suitable for a firearm which does not have a firing pin but instead includes a laser beam generator or the like for firing a charge of ammunition. the charge of ammunition (10) consists of a hollow body (16), a propellant in the form of a explosive charge (13) in the hollow body (16), a propellant in the form of a explosive charge (13) in the hollow body (16), an aperture (14) extending into the hollow body and a closure member (18) for closing the aperture. the closure member

(18) is made of a material for allowing a laser beam to pass through it and the material consists of at least one material of the group consisting of a ceramic material, a resinous material and a polymeric material.

8- **Número de publicación:** WO2017040806A1
Fecha de publicación: 09 de Jan de 2017
Fecha de oposición: 10 de Jul de 2019
Abstract: a perforating gun includes a charge tube disposed inside a carrier and a plurality of sets of shaped charges axially distributed along the charge tube. each shaped charge of the plurality of shaped charges is supported at an opening in the charge tube. the perforating gun also includes a plurality of detonator cords. each detonator cord of the plurality of detonator cords connects to one shaped charge in each set of shaped charges.

9- **Número de publicación:** WO8601498A1
Fecha de publicación: 13 de Jan de 1986
Fecha de oposición: 13 de Jul de 1988
Abstract: non-primary explosive detonator comprising a hollow tube (1) with a closed end having a chamber containing a secondary explosive base charge (8), an opposite open end provided with or for the insertion of an igniting means (9, 15, 16), and an intermediate confinement adjacent said chamber and containing an initiating charge (7), a delay composition (6) optionally being present adjacent said initiating charge. the characteristic feature of the detonator is that the confinement contains a secondary explosive initiating charge (7), by which the current drawbacks in connection with primary explosive initiating charges are reduced, and that it is thin-walled and in the end towards said chamber is open or provided with a thin wall or an aperture (5) or a recess therefore, to accelerate the burning of said secondary explosive initiating charge to a shock wave that causes detonation of said secondary explosive base charge, and a hole (4) which permits ignition of said secondary explosive initiating charge via the igniting means (9). by the special design of the confinement

the detonator is very versatile as compared to previously known non-primary explosive detonators. the invention also relates to a separate initiating element having the structure disclosed above for the confinement.

10- **Número de publicación:** WO2014052959A2
Fecha de publicación: 03 de Jan de 2014
Fecha de oposición: 03 de Jul de 2016
Abstract: an electronics device carrier for porting a battery powered electronic device is formed by outer walls surrounding a hollow volume. the electronic device is held within the hollow volume and can be operated without removing the electronic device from the carrier. an input interface comprising interface elements external to the outer walls provides an element suitable for interfacing with external power devices such as a power source or another power load. a device interface includes interface elements at least partially disposed internal to the outer walls for interfacing with the electronic device battery. a charge controller is disposed between the input interface and the device interface and is operable to connect elements connected to the input interface to the device battery to either re charge the device battery or use the device battery as a power source.

11- **Número de publicación:** WO2015198282A1
Fecha de publicación: 30 de Jan de 2015
Fecha de oposición: 30 de Jul de 2017
Abstract: a support device (10) in the form of a plastics plug for supporting material comprising stemming (46) in the form of crushed stone and an explosive charge (48) in a blast drill hole (40) at a position wherein the material is spaced above a bottom wall (42) of the drill hole (40). the support device (10) comprises a cup- shaped material supporting portion (16) in which the material is supported and an elongate shank portion (18) which extends from the material supporting portion (16). the shank portion (18) has a tapering hollow conic al configuration and is releasebly connected to the material supporting portion(16) in an arrangement permitting separation of the material supporting portion (16) from the shank portion (18) so that the material supporting portion (16) can be used separately in a mid-hole decking application.