

SUPERINDUSTRIA Y COMERCIO
Radicación: 04084186 00000003 Folios: 14
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Trámite: 002 PATENTES D 1 REGISTRO/ 444 REPUESTA
Dependencia: 2020 DIVISION DE NUEVAS CREACIONES

Clarke, Modet & C^{ía}

COLOMBIA

SEÑORES
DIVISIÓN DE NUEVAS CREACIONES
SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
E. S. D.

REF: SOLICITUD DE PATENTE EN COLOMBIA
EXPEDIENTE No. 04084186
FECHA DE LA SOLICITUD: Agosto 27, 2004
SOLICITANTE: EAZYPOWER CORPORATION
TITULO: TALADRO DE PERCUSION Y DISPOSITIVO
EXTRACTOR DE ELEMENTOS DE SUJECCIÓN

ASUNTO: CONTESTACIÓN A REQUERIMIENTO OFICIAL

DILIA RODRIGUEZ D'ALEMAN, en mi condición de apoderada de la sociedad solicitante, por el presente escrito doy respuesta a su auto notificado por estado de Septiembre 23 de 2004, que vence Noviembre 23 de 2004 del cual solicité una prórroga, y me permito presentar los siguientes documentos:

- El documento de PODER otorgado a mi favor, junto con la prueba de existencia y representación legal del solicitante, debidamente legalizados.
- Su traducción oficial al Español debidamente avalada por el Ministerio de Relaciones Exteriores.
- El documento en el que consta la CESIÓN del derecho a la patente otorgado por los inventores al solicitante, debidamente legalizado.
- Su traducción oficial al Español debidamente avalada por el Ministerio de Relaciones Exteriores.

Estamos pendiente de presentar la copia certificada de la Prioridad reivindicada, cuyo término será SEPTIEMBRE 12 DE 2005.

Ruego a usted continuar con el presente trámite.

Señor Jefe,



DILIA RODRIGUEZ D'ALEMAN

MRO/srr

p-575



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P 575

TRADUCCIÓN OFICIAL No. 05/020 de un documento escrito en inglés, el cual para su identificación se
... con el sello del traductor al tiempo con la presente. Esta traducción ha sido preparada por Juan
Pablo Piedrahita Aguilera, Traductor e Intérprete Oficial debidamente reconocido de conformidad con la
resolución número 718 de 2003 expedida por el Ministerio del Interior y de Justicia

(Se traduce un Poder otorgado por la compañía EAZYPOWER CORPORATION, con fecha 4 de Enero,
2006, firmado por Burton Kozak, Certificación Notarial y Apostilla No. C05GL10327, escritos en inglés.)

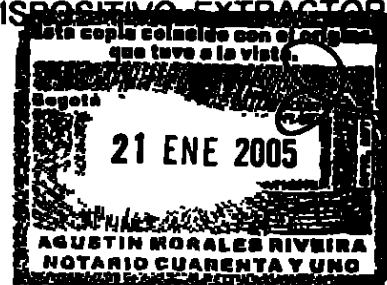
Clarke, Modet & Co.

COLOMBIA

(Dirección en español)

PODER

El suscrito, Kozak Burton representante legal de EAZYPOWER CORPORATION, sociedad constituida y existente bajo las leyes del Estado de Illinois, Estados Unidos de América y en desempeño en la actualidad de su actividad comercial, domiciliada en 4006 W. Belden Ave. Chicago, IL 60639, Estados Unidos de América, por el presente otorgamos Poder a DILIA MARÍA RODRÍGUEZ D'ALEMÁN, identificada con cédula de ciudadanía No. 41.654.882 de Bogotá y Tarjeta Profesional 20824 y CLAUDIA LUCIA CARO RAMIREZ, identificada con Tarjeta Profesional 36448 y cédula de ciudadanía No 40.017.374 de Tunja, con domicilio en Bogotá, Colombia, para que actuando en su orden en nombre de la otorgante la representen ante cualquier entidad, autoridad y/o persona, especialmente ante las del orden Administrativo, Contencioso Administrativo, Judicial, Tribunales de Arbitramento y/o cualquier otro en lo referente a la siguiente Solicitud de Patente Titulada TALADRO DE PERCUSIÓN Y DISPOSITIVO EXTRACTOR DE ELEMENTOS DE SUJECIÓN

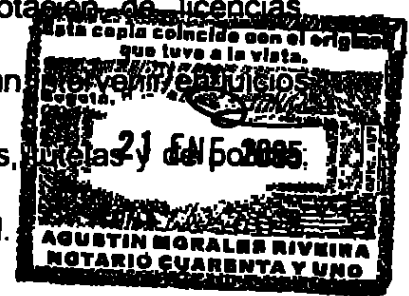


1) Solicitar, tramitar, obtener y/o registrar cualesquiera de las modalidades de Propiedad Industrial, tales como: Patentes de Invención, Modelos de Utilidad; Diseños Industriales, variedades vegetales, Marcas, Lemas, Nombres y Enseñas Comerciales y Denominaciones de Origen; así como sus renovaciones, prórrogas, traspasos, cambios de nombre y/o domicilio, contratos y licencias.

2) Solicitar, tramitar, obtener, y/o registrar derechos de autor, en cualquiera de sus presentaciones así como la protección de secretos industriales y know-how.

3) Solicitar, tramitar, obtener y/o registrar registros sanitarios, permisos y/o licencias de funcionamiento; así como sus renovaciones o prórrogas, cesiones, traspasos, cambios de nombre y/o domicilio, contratos y licencias.

4) Ejercer acciones de oposición, observación, reclamos, reivindicaciones, reconsideración, reposición, apelación, cancelación administrativa o judicial, nulidad, protección al consumidor, concesión de licencias, protección de secretos industriales y demás acciones y recursos relacionados con derechos derivados de los asuntos arriba indicados y en contra de la competencia desleal, acciones derivadas de la obtención o explotación de licencias, acciones de indemnización de perjuicios. También podrán promover acciones civiles, comerciales, penales, contencioso-administrativos, acciones o juicios promovidos por el mandante o contra él.



65 /
TRADUCCION OFICIAL No. _____
JUAN PABLO PEDRAJITA AGUILERA
TRADUCCION E INTERPRETE OFICIAL
N.º. 718 DE MAYO 2003
JEL MIN. INTERIOR Y DE JUSTICIA

75
4

- 5) Registrar nombres de dominio ante la entidad competente.
- 6) En el ejercicio de este mandato los mandatarios arriba mencionados quedan facultados para: conciliar, cancelar, transigir, aceptar cláusulas compromisorias, desistir, recibir y tomar posesión de la cosa objeto de litigio y renunciar o desistir derechos concedidos o en curso de concesión, admitir los hechos del proceso.
- 7) Ratificar o no la agencia oficiosa.
- 8) Así mismo facultamos a los mencionados apoderados para recibir notificaciones y designar apoderados judiciales o extrajudiciales, sustituir el presente poder y revocar las sustituciones que hicieren.

Dado y firmado en EAZYPOWER CORPORATION, hoy día 4 de Enero, 2005.

Por: (Firmado) Burton Kozak

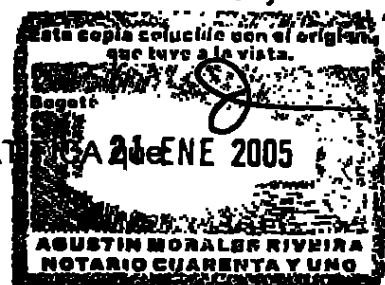
(Firmado) Michael J Cherskov, Notario

(Sello Notarial a Tinta: Sello Oficial, Michael J Cherskov, Notario Público, Estado de Illinois, Mi Comisión vence 03/12/06) (Firmado) Ilegible.

CERTIFICADO NOTARIAL (Cuando el solicitante es una SOCIEDAD)

(Poderes otorgados en El Salvador, México, Estados Unidos de América y Venezuela)

Expedido hoy día 3 de Enero, 2005, el suscrito Notario CERT



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5

1). Burton Kozak, (nombre de quien firma el poder), mayor de edad y domiciliado en Chicago, suscribió el anterior documento.

2) El otorgante le es conocido personalmente y tiene capacidad para firmar el documento.

3) El otorgante ha suscrito el anterior documento en su calidad de Presidente de la persona jurídica EAZYPOWER CORPORATION.

4) La mencionada persona jurídica con domicilio comercial en Chicago. IL., está debidamente constituida, tiene actualmente existencia legal y el fin para el cual se otorga este poder se encuentra dentro de su objeto social.

5) El otorgante tiene en efecto la capacidad referida y su representación es legal y está autorizado para otorgar este poder.

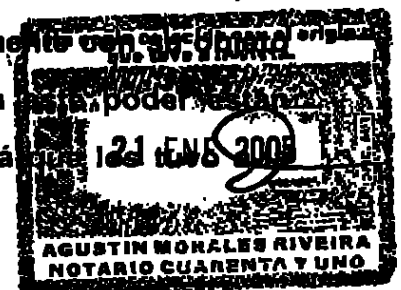
6) Fundamento las certificaciones 3), 4) y 5) en los documentos auténticos que para tal fin me fueron exhibidos.

(Firmado) Michael J Cherskov

Notario Público

Nota: El Consulado de Colombia debe autenticar la firma del Notario Público.

Para todos los demás países el Señor Cónsul de Colombia o ante quien se otorgue, debe expedir una certificación dejando constancia de: 1) la existencia legal de la sociedad, 2) que cumple actualmente con el objeto social, y 3) que la persona o personas que otorgan este poder están facultadas para hacerlo. El Cónsul también certificará que los



Notario Público
Michael J Cherskov
Notario Cuarenta y Uno
Notario Cuarenta y Uno

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vista los documentos que prueban y acreditan tales circunstancias.

LEGALIZACIÓN POR EL CÓNSUL DE COLOMBIA A O POR APOSTILLA

(Sello Notarial a Tinta: Sello Oficial, Michael J Cherskov, Notario Público,

Estado de Illinois, Mi Comisión vence 03/12/06) (Firmado) Ilegible.

ESTADO DE ILLINOIS

SECRETARIA DE ESTADO

SPRINGFIELD, ILLINOIS

APOSTILLA

(Convención de la Haya de Octubre 5 de 1961)

1. País: Estados Unidos de América
Este documento público
2. Ha sido firmado por Michael J Cherskov
3. Obrando en calidad de NOTARIO PÚBLICO, CONDADO DE COOK.
4. Lleva el sello/estampilla del ESTADO DE ILLINOIS

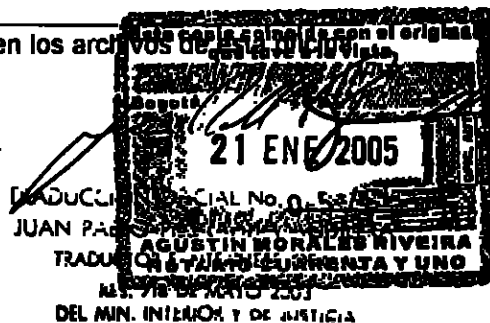
CERTIFICADA

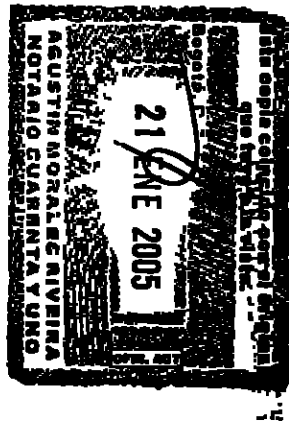
5. En Chicago, Illinois
6. Hoy 7 de ENERO, 2005
7. Por El Secretario de Estado del Estado de Illinois,
8. Número C05GL10327
9. Sello / Estampilla (Sello Redondo en Relieve del Estado de Illinois)
10. Firma (Firmado)
JESSE WHITE

Secretario de Estado, Estado de Illinois

ES TRADUCCIÓN FIEL Y COMPLETA de la cual se deja copia en los archivos de este Consulado, para su confrontación y a la cual me remito.

Bogotá, Enero 19, 2005.





NO SE ASUME
RESPONSABILIDAD DEL TEXTO

2005 JAN 20 P 12: 51

LM
JEFE DE LEGALIZACIONES
SANTAFE DE BOGOTA D.C.

08052-1
Francisco P. Pacheco
HA FIRMADO EN EL
DOCUMENTO PRESENTE
LAS FIRMAS DE LOS



SPRINGFIELD, ILLINOIS

APOSTILLE
APOSTILLE

(Convention de La Haye du 5 Octobre 1961)

1. Country: United States of America

This public document

2. has been signed by MICHAEL J. CHERSKOV

3. acting in the capacity of NOTARY PUBLIC, COOK COUNTY

4. bears the seal/stamp of STATE OF ILLINOIS

Certified

5. Chicago, Illinois

6. JANUARY 7, 2005

7. by the Secretary of State, State of Illinois

8. No.C05GL10327

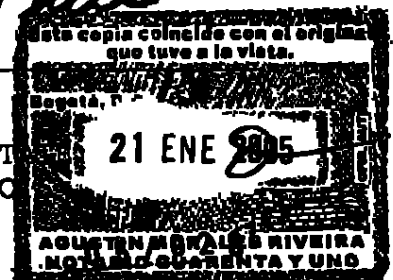
9. Seal/Stamp:

10. Signature:



Jesse White

JESSE WHITE
SECRETARY OF STATE
STATE OF ILLINOIS



TRADUCCION OFICIAL
JUAN PABLO PIEDRAHITA AGUIRRE
TRADUCTOR E INTERPRETE OFICIAL
BOGOTÁ, COLOMBIA
DEL MIN. INTERIOR Y JUSTICIA



Clarke, Modet & Co

COLOMBIA

Carrera 11 # 93-43, Of. 404 Bogotá Colombia Tel: (57 1) 6350813-Fax: (57 1) 6350834-E-mail: clarkemodet@clarkemodet.com.co

PODER

Yo (nosotros), abajo firmante(s)

en mi (nuestro) carácter de representante(s) legales de

una sociedad organizada y existente de acuerdo con las leyes de

y en actual cumplimiento de su objeto social, con domicilio en

por el presente instrumento confiero (conferimos) poder especial a favor de DILIA MARIA RODRIGUEZ D'ALEMAN, con Cédula de Ciudadanía No. 41.634.882 de Bogotá, y tp. 20824 y CLAUDIA LUCIA CARO RAMIREZ, con Cédula de Ciudadanía No. 40.017.374 de Tunja, y tp. 36448, con domicilio en Bogotá, Colombia, para que actuando en su orden en nombre del (de la) otorgante le (la) representen ante cualquier entidad, autoridad y/o persona, especialmente ante las del orden Administrativo, Contencioso Administrativo, Judicial, Tribunales de Arbitramento y/o cualquier otro en lo referente a los siguientes asuntos:

- 1) Solicitar, tramitar, obtener y/o registrar cualquiera de las modalidades de Propiedad Industrial, tales como: patentes de invención, modelos de utilidad; diseños industriales, variedades vegetales; marcas, lemas, nombres y enseñas comerciales y denominaciones de origen; así como sus renovaciones, prórrogas, transferencias, cambios de nombre y/o domicilio, contratos y licencias.
- 2) Solicitar, tramitar, obtener y/o registrar derechos de autor, en cualquiera de sus prestaciones así como la protección de secretos industriales y know-how.
- 3) Solicitar, tramitar, obtener y/o registrar registros sanitarios, permisos y/o licencias de funcionamiento; así como sus renovaciones o prórrogas, transferencias, cambios de nombre y/o domicilio, contratos y licencias.
- 4) Ejercer acciones de oposición, observación, reclamos, reconsideración, reposición, apelación, cancelación administrativa o judicial, nulidad, protección al consumidor, concesión de licencias, protección de secretos industriales y demás acciones y recursos relacionados con derechos derivados de los asuntos arriba indicados y en contra de la competencia desleal, acciones derivadas de la obtención o explotación de licencias, acciones de indemnización de perjuicios. También podrá(n) intervenir en juicios civiles, comerciales, penales, contencioso-administrativos, tutelados y de policía; en acciones o juicios promovidos por el (la) mandante o en contra el (ella).
- 5) Registrar nombres de dominio ante la entidad competente.
- 6) En el ejercicio de este mandato los mandatarios arriba mencionados quedan facultados para: conciliar, cancelar, transigir, comprometer en árbitros, desistirse, recibir y tomar posesión de la cosa objeto de litigio y renunciar o desistirse a derechos concedidos o en curso de concesión, admitir los hechos del proceso.
- 7) Ratificar o no la agencia oficiosa.
- 8) Así mismo faculto (facultamos) a los mencionados apoderados para recibir notificaciones y designar apoderados judiciales o extrajudiciales, sustituir el presente poder y revocar las sustituciones que hicieren.

Dado y firmado en

a los días de

OFFICIAL SEAL

MICHAEL J CHERSKOV
NOTARY PUBLIC, STATE OF ILLINOIS
MY COMMISSION EXPIRES: 03/12/06

POWER OF ATTORNEY

I (we), the undersigned Burton Kozak

legal representative(s) of EAZYPOWER CORPORATION

an organization existing under the laws of State of Illinois,
U.S.A

and in present execution of its business activity, domiciled at

4006 W. Belden Ave. Chicago, IL 60639

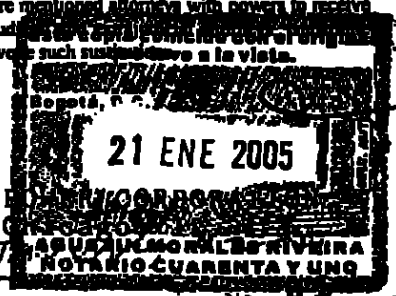
do hereby grant POWER OF ATTORNEY to DILIA MARIA RODRIGUEZ D'ALEMAN, identification card No. 41.634.882 of Bogotá, and tp. 20824 and CLAUDIA LUCIA CARO RAMIREZ, tp. 36448, identification card No. 40.017.374 of Tunja, residing in Bogotá, Colombia, to act in the order of their appointment in behalf of grantor before any entity, authority and/or natural or juridical person, specially before those Administrative, Administrative-Contentious, Judicial, arbitration courts, and/or any other, in all matters concerning the following: Patent Application Entitled
IMPACT DRIVER AND FASTENER REMOVAL
DEVICE

- 1) To apply, process, obtain and/or register any of the modalities of Industrial Property, such as: Patents of invention, Utility Models, Designs, plant varieties; Marks, Slogans, Trade Names and emblems and appellations of Origin; as well as their renewals, assignments, changes of name and/or domicile, agreements and licenses.
- 2) To apply, process, obtain and/or register copyrights of any kind as well as protection of industrial secrets or know-how.
- 3) To apply, process, obtain and/or register sanitary registrations, operating authorizations and/or licenses; as well as their renewals or assignments, changes of name and/or domicile, agreements and licenses.
- 4) To bring actions of opposition, observations, claims, reconsideration, appeal or legal remedies, cancellations, nullity, protection to the consumer, granting of licenses, protection of trade secrets and other actions related with rights derived from the above-mentioned matters and against the unfair competition, actions resulting from the obtaining or exploitation of licenses, recovering damages actions. They can also intervene or participate in Civil, Commercial, Criminal or Contentious-Administrative Trials; the actions for writ mandamus, police actions; in actions, lawsuits or litigations instituted by the grantor or against him.
- 5) To register domain names before the competent entity.
- 6) To the effect of this mandate the above-named proxy are empowered to: conciliate, cancel, settle, submit to arbitration, withdraw and to receive and take possession of the litigation related object and waive or renounce the rights granted or in process of granting, admit the facts of the case.
- 7) To ratify or not the officious agency.
- 8) I (we) hereby appoint the afore mentioned attorney with powers to receive notifications and to designate judges and arbitrators before or after this Power of Attorney and to revoke such sustituciones a la vista.

Granted and signed at EAZYPOWER CORPORATION

on this 4th day of, July

Forma / Signature



TRADUCCION DE CEMENTO
JUAN PINEDA
TRADUCCION E INTERPRETE JURADO
ME AS DE MARZO 2005
DEL MUN INTERIOR DE ASISTENCIA

CERTIFICADO NOTARIAL

(Cuando el solicitante es SOCIEDAD)

(Powers of attorney granted in: El Salvador, Estados Unidos, México y Venezuela)

A los _____ días del mes de _____ de _____
el Notario que suscribe DA FE de que:

1. _____
(nombre de la persona que firma el poder)
- mayor de edad y domiciliado en _____
_____ firmó de su puño
y letra el documento que antecede.
2. Conoce al (a la) otorgante y que este (a) está legalmente capacitado para el otorgamiento.
3. El otorgante ha firmado el referido documento en su carácter de _____
de la persona jurídica _____

4. La citada persona jurídica con sede en _____
_____ está legalmente
constituida, que tiene actualmente
existencia legal y que el acto para el cual se ha otorgado este
poder está comprendido entre los que constituyen su objeto social.
5. El otorgante tiene efectivamente la representación que ostenta, que
esta es legítima y que está facultado para otorgar este poder.
6. Las anteriores certificaciones de los puntos 3, 4 y 5, me constan porque
he tenido a la vista los documentos auténticos.

Notario Público

NOTA: A continuación de lo anterior, el Cónsul de Colombia debe
autenticar la firma del Notario Público.

**CERTIFICADO NOTARIAL (Cuando el solicitante es
INDIVIDUO)**

A los _____ días del mes de _____ de _____
el Notario que suscribe DA FE de que:

1. _____
(nombre de la persona que firma el poder)
- mayor de edad y domiciliado en _____
_____ firmó en su presencia
el documento que antecede, conoce al otorgante y que este está
legalmente capacitado para el otorgamiento.

Notario Público

NOTA: A continuación de lo anterior, el Cónsul de Colombia debe
autenticar la firma del Notario Público.

Para todos los demás países el Señor Cónsul de Colombia o ante
quien se otorgue, debe expedir una certificación dejando constancia
1) de la existencia legal de la sociedad, 2) de que esta ejerce actual-
mente su objeto social, y 3) de que la persona o personas que otorgan
el poder están facultadas para hacerla, dejando
constancia así mismo de que tuvo a la vista las pruebas que acreditan
tales circunstancias.

**LEGALIZACIÓN POR EL CONSUL DE COLOMBIA
O POR APOSTILLA**

TRADUCCIÓN CERTIFICADA 105/026
JUAN FERRER
TRADUCTOR E INTERPRETE JURADO
RES. 210 DE MARZO DE 2003
DEL MIN. INTERIOR Y JUSTICIA

NOTARIAL CERTIFICATE

(When the applicant is a CORPORATION)

(Powers of attorney granted in: El Salvador, Mexico, U.S.A. and Venezuela)

This 3rd day of January, 2005
the undersigned Notary CERTIFIES that:

1. Burton Kozak
(name of the person who signs the power of attorney)
- of _____ legal _____ age _____ and _____
domiciled in Chicago _____ set his hand on
the foregoing document.
2. The grantor is to him personally known and that he/she has legal capacity to
execute the document.
3. The grantor has executed the foregoing document in his capacity
of President
of the juridical person GAZYPOWER CORPORATION

4. The mentioned juridical person with place of business
in Chicago, IL
is duly organized, has actual legal existence and that the purposes for
which the power of attorney is granted are within the scope of its corporate
purposes.
5. The grantor has in fact the referred quality and that his/her
representation is legal and that he/she is empowered to grant this power
of attorney.
6. I have based the above certifications 2, 4 and 5, on the authentic documents
which for each purpose were exhibited to me.

Notary Public

NOTA: Then the Colombian Consul must legalize the signature of the Notary
Public.

**NOTARIAL CERTIFICATE (When the applicant is an
INDIVIDUALS)**

On this _____ day of _____
the undersigned Notary CERTIFIES that:

1. _____
(name of the person who signs the Power of Attorney)
- of legal age and domiciled at _____
_____ signed in his presence the foregoing
document, the grantor is to him personally known and that he/she has legal
capacity to execute the document.

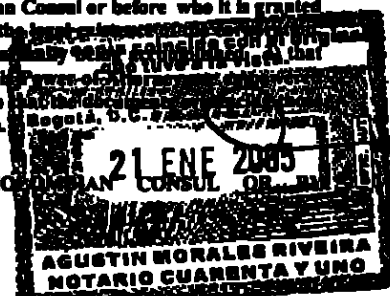
Notary Public

NOTA: Then the Colombian Consul must legalize the signature of the Notary
Public.

For all other countries the Colombian Consul or before who it is granted
must issue a certification stating 1) the legal existence of the corporation
2) that the corporate purposes are within the scope of its corporate purposes
the person or persons who grant this power of attorney are duly qualified
to do it. The Consul will certify also that the documents on which the
circumstances were exhibited to him.

**LEGALIZATION BY THE COLOMBIAN CONSUL OR
APOSTILLE.**

OFFICIAL SEAL
MICHAEL J CHERSKOV
NOTARY PUBLIC, STATE OF ILLINOIS
MY COMMISSION EXPIRES 03/12/08



81 TD

TRADUCCION OFICIAL No. 05/019 de un documento escrito en inglés, el cual para su identificación se
seña con el sello del traductor al tiempo con la presente. Esta traducción ha sido preparada por Juan
Pablo Piedrahita Aguilera, Traductor e Intérprete Oficial debidamente reconocido de conformidad con la
resolución número 718 de 2003 expedida por el Ministerio del Interior y de Justicia

(Se traduce un documento de Cesión a favor de la compañía EAZYPOWER CORPORATION y Apostilla
No C05GL10328, escritos en inglés.)

- COLOMBIA -

CESIÓN

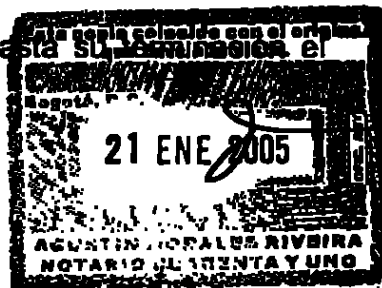
Los suscritos, (en adelante los CEDENTES)

1. Burton Kozak
2. Ira Kozak

Con domicilio en:

1. 1300 N. Lake Shore Dr. Chicago, IL 60610
2. 4642 W. Schubert Ave. Chicago, IL. 60639

por el presente declara que cede todos y cada uno de los derechos y
privilegios que le correspondan o que le puedan corresponder sobre la
siguiente solicitud de patente en Colombia: Solicitud de Patente Titulada
TALADRO DE PERCUSIÓN Y DISPOSITIVO EXTRACTOR DE ELEMENTOS
DE SUJECCIÓN a: EAZYPOWER CORPORATION. con domicilio en 4006 W.
Belden Ave., Chicago, Illinois 60639, (en adelante el CESIONARIO) quien
acepta la cesión que se hace en el presente y autoriza a DILIA MARÍA
RODRIGUEZ D'ALEMÁN, tp. 20824 y a CLAUDIA LUCÍA CARO RAMIREZ, tp
36448, con domicilio en Santafé de Bogotá, Colombia, para que obrando en su
orden, en nombre del (de los) otorgante(s) tramiten hasta su inscripción el
registro de la presente cesión.



El Cedente y el Cesionario firman este documento como prueba de aceptación de la cesión.

Dada y firmada en (en blanco) el día (en blanco) de (en blanco).

(Firmado) Ilegible

Burton Kozak, Presidente

El Cesionario

(Firmado) Ilegible

Burton Kozak

(Firmado) Ilegible

Ira Kozak

Los Cedentes

(Sello Notarial a Tinta: Sello Oficial, Michael J Cherskov, Notario Público, Estado de Illinois, Mi Comisión vence 03/12/06) (Firmado) Ilegible.

NOTA: Este documento debe ser otorgado ante Notario Público y legalizado por el Cónsul Colombia.

ESTADO DE ILLINOIS

SECRETARIA DE ESTADO

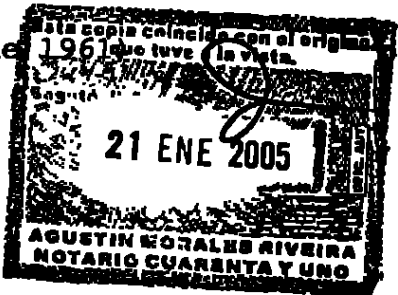
SPRINGFIELD, ILLINOIS

APOSTILLA

(Convención de la Haya de Octubre 5 de

1. País: Estados Unidos de América

Este documento público



TRADUCCION ORIGINAL No. 05719
JUAN PABLO RODRIGUEZ AGUILERA
TRADUCTOR E INTERPRETE OFICIAL
R.S. 718 DE MAYO 2003
DEL MIN. INTERIOR Y DE JUSTICIA

1. Ha sido firmado por Michael J Cherskov
2. Obrando en calidad de NOTARIO PUBLICO, CONDADO DE COOK.
4. Lleva el sello/estampilla del ESTADO DE ILLINOIS

CERTIFICADA

5. En Chicago, Illinois
6. Hoy 7 de ENERO, 2005
7. Por El Secretario de Estado del Estado de Illinois,
8. Número C05GL10328
9. Sello / Estampilla (Sello Redondo en Relieve del Estado de Illinois)
10. Firma (Firmado)

JESSE WHITE

Secretario de Estado, Estado de Illinois

ES TRADUCCIÓN FIEL Y COMPLETA de la cual se deja copia en los archivos de esta oficina para su confrontación y a la cual me remito.

Bogotá, Enero 19, 2005.

NO SE ASUME
RESPONSABILIDAD DEL TEXTO

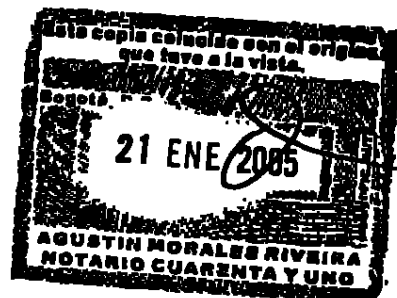
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JCS
JEFE DE LEGALIZACIONES
SANTAFE DE BOGOTA D.C.

Juan Pablo Piedrahíta
05/01/05
TRADUCCION ORIGINAL No. 05/01/05
JUAN PABLO PIEDRAHÍTA AGUILERA
TRADUCTOR E INTERPRETE OFICIAL
RES. 718 DE MAYO 2003
DEL MIN. INTERIOR Y DE JUSTICIA

EXTERIORES

080520
Juan Piedrahíta
CUM FICHA APARECE EN EL
DOCUMENTO DESEMPENA
LAS FIRMAS INICIALES





SPRINGFIELD, ILLINOIS

APOSTILLE
APOSTILLE

(Convention de La Haye du 5 Octobre 1961)

1. Country: United States of America

This public document

2. has been signed by MICHAEL J. CHERSKOV

3. acting in the capacity of NOTARY PUBLIC, COOK COUNTY

4. bears the seal/stamp of STATE OF ILLINOIS

Certified

5. Chicago, Illinois

6. JANUARY 7, 2005

7. by the Secretary of State, State of Illinois

8. No.C05GL10328

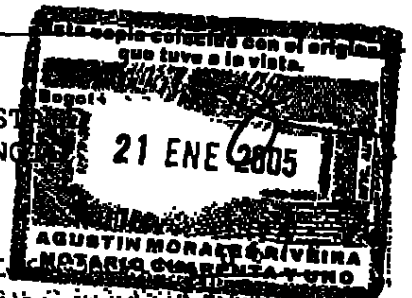
9. Seal/Stamp:

10. Signature:



Jesse White

JESSE WHITE
SECRETARY OF STATE
STATE OF ILLINOIS



TRADUC
JUAN PABLO PROKOPCHAK AGUIRRE
TRADUCTOR E INTERPRETE OFICIAL
RES. 718 DE MAYO 2003
DEL MIN. INTERIOR Y DE JUSTICIA

CESION

El (la) abajo firmante (En adelante EL CEDENTE)

En su carácter de representante legal de

con domicilio en

por el presente documento declara que cede todos y cada uno de los derechos que le correspondan o puedan corresponderle sobre la/s siguiente/s en Colombia:

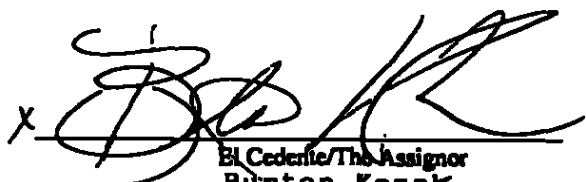
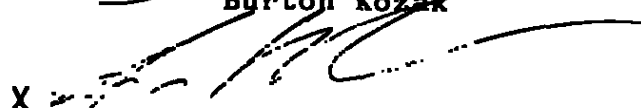
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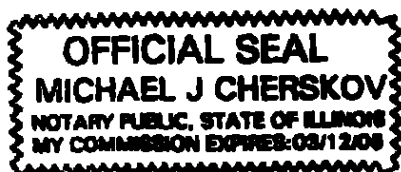
con domicilio en

(En adelante llamada LA CESIONARIA) quien acepta la cesión que aquí se le hace y autoriza a DILIA MARIA RODRIGUEZ D'ALEMAN, tp. 20824 y CLAUDIA LUCIA CARO RAMIREZ, tp. 36448, con domicilio en Santa Fé de Bogotá, Colombia, para que actuando en su orden, en nombre del (de los) otorgante (s) tramiten hasta su terminación la inscripción de la presente cesión.

En prueba de la mutua aceptación de esta cesión ambas partes CEDENTE y CESIONARIO firman el presente documento.

Dado y firmado en
A los días de

X 
El Cedente/The Assignor
Burton Kozak
X 
Ira Kozak





ASSIGNMENT

The undersigned (hereinafter THE ASSIGNOR)

1. Burton Kozak
2. Ira Kozak

Domiciled in:

1. 1300 N. Lake Shore Dr. Chicago, IL 60610
2. 4642 W. Schubert Ave. Chicago, IL. 60639

do hereby declares that it assigns all and each of his rights and privileges on the following in Colombia: patent Application Entitled IMPACT DRIVER AND FASTNER REMOVAL DEVICE

to

EAZYPOWER CORPORATION

with domicile in 4006 W. Belden Ave.
Chicago, IL 60639

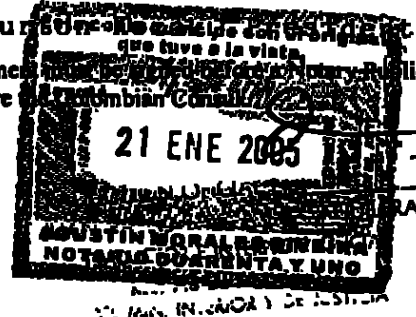
(Hereinafter THE ASSIGNEE) who accepts the assignment hereby done and authorizes to DILIA MARIA RODRIGUEZ D'ALEMAN, tp. 20824 and CLAUDIA CARO RAMIREZ, tp. 36448, residing in Santa Fé de Bogotá, Colombia, in the order of their appointment on behalf of grantors to process until its completion the registration of this assignment.

As a proof of the mutual acceptance of this assignment, both parties ASSIGNOR and ASSIGNEE sign the present document.

Granted and signed at
On this day of

X 
El Cesionario/The Assignee
Burton Kozak

NOTE: This document must be signed before a Notary Public and legalized before the Colombian Consulate



Clarke, Modet & C

COLOMBIA

86
SUPERINDUSTRIA Y COMERCIO
Radicación : 04084186 00000004 Folios: 74
Fecha (RIB): 2005-03-03 16:31:18
Trámite : 002 PATENTES D 1 REGISTRO/ 444 REPUESTA
Dependencia: 2020 DIVISION DE NUEVAS CREACIONES

**SEÑORES
DIVISIÓN DE NUEVAS CREACIONES
SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
E. S. D.**

**REF: SOLICITUD DE PATENTE EN COLOMBIA
EXPEDIENTE No. 04084186 ✓
FECHA DE LA SOLICITUD: Agosto 27, 2004
SOLICITANTE: EAZYPOWER CORPORATION
TITULO: TALADRO DE PERCUSION Y DISPOSITIVO
EXTRACTOR DE ELEMENTOS DE SUJECIÓN**

ASUNTO: CONTESTACIÓN A REQUERIMIENTO OFICIAL

**DILIA RODRIGUEZ D'ALEMAN, en mi condición de apoderada de la sociedad
solicitante, por el presente escrito me permito presentar:**

- 1. Copia certificada de la Prioridad Estadounidense reivindicada Nr.
10/844,795 de Mayo 12, 2004**
- 2. Su traducción al español**

**Esta prioridad está siendo presentada dentro del término, toda vez que la
solicitud fue presentada el 12 de Mayo de 2004.**

Ruego a usted continuar con el presente trámite.

Señor Jefe,


**DILIA RODRIGUEZ D'ALEMAN
MRO/srr
p-575
Lcn.**

TRADUCCIÓN OFICIAL No. 05/086 de un documento escrito en inglés, el cual para su identificación se sella con el sello del traductor al tiempo con la presente. Esta traducción ha sido preparada por Juan Pablo Piedrahita Aguilera, Traductor e Intérprete Oficial debidamente reconocido por el Ministerio del Interior y de Justicia, por resolución número 718 de 2003 y autorizado por el Ministerio de relaciones Exteriores de Colombia.

(Se traduce una Certificación de la Oficina de Patentes y Marcas de los Estados Unidos de la Solicitud de patente No. 10/844,795 y el Capítulo de Reivindicaciones respectivo, escritos en inglés.)

PA 1272006

ESTADOS UNIDOS DE AMERICA

A TODOS A QUIENES ESTOS PRESENTES LLEGAREN:
DEPARTAMENTO DE COMERCIO DE LOS ESTADOS UNIDOS
Oficina de Patentes Y Marcas de Los Estados Unidos

Enero 14, 2005

POR EL PRESENTE CERTIFICO QUE ADJUNTA SE ENCUENTRA UNA COPIA FIEL DE LOS ARCHIVOS DE LA OFICINA DE PATENTES Y MARCAS DE LOS ESTADOS UNIDOS DE AMÉRICA DE LOS DOCUMENTOS DE LA SOLICITUD DE PATENTE IDENTIFICADOS ABAJO Y QUE CUMPLIERON CON LOS REQUISITOS PARA QUE SE LES OTORGARA UNA FECHA DE PRESENTACIÓN BAJO EL CÓDIGO DE COMERCIO DE LOS ESTADOS UNIDOS DE AMÉRICA TÍTULO 35 SECCIÓN 111.

NÚMERO DE SOLICITUD: **10/844,795**

FECHA DE PRESENTACIÓN: **Mayo 12, 2004**

Por autoridad del

COMISARIO DE PATENTES Y MARCAS

(Firmado.)

P. SWAIN

Funcionario que Certifica

(SELLO DE OBLEA DE LA OFICINA DE PATENTES Y MARCAS DE LOS ESTADOS UNIDOS DE AMÉRICA)

Handwritten marks and initials in the top right corner.

Código de barras, 22783 Oficina e Patentes y Marcas de los Estados Unidos,
051204

PTO /SB/ /05/ (04-04)

Aprobado para uso hasta 07/31/2006. OMB 0651-0032

Oficina e Patentes y Marcas de los Estados Unidos, DEPARTAMENTO DE
COMERCIO

Bajo la Ley de Reducción de Papeleo de 1995, no se requiere que ninguna
persona responda a una recolección de información a menos que ella
reemplace un número válido de control OMB.

TRANSMISIÓN DE SOLICITUD DE PATENTE DE UTILIDAD (Solamente para solicitudes nuevas no provisionales bajo 37CFR 1 53 (b))	No. de Expediente Oficial	210121.475C3
	Primer Inventor Nombrado o Identificación de Solicitud	
	Steven G. Reed	
	Título:	TALADRO DE PERCUSIÓN Y DISPOSITIVO EXTRACTOR DE ELEMENTOS DE SUJECCIÓN
Gula de Correo Expreso No.		ER605188145US

ELEMENTOS DE SOLICITUD Véase MPEP capítulo 600 referente al contenido de la solicitud para patentes de utilidad.	Diríjase a: Comisario Asistente de Patentes Casilla P.O. box 1450 Alexandria VA. 22313 - 1450
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- 1. ☐ Formulario de Transmisión de Pago (P. Ej. PTO/SB/17)
(Presentar original y copia para procesamiento de pago).
- 2. El solicitante reivindica condición de entidad pequeña.
(Ver CFR 1.27)

TRADUCCION OFICIAL No. 05 / 066
JUAN PABLO PIEDRAHITA AGUILERA
TRADUCTOR E INTERPRETE OFICIAL
RES. 718 DE MAYO 2003
DEL MIN. INTERIOR Y DE JUSTICIA

89 ¹²

3. ☒ Especificación (Total de páginas)

(Modalidad preferida a continuación)

- Título Descriptivo de la Invención
- Referencias Cruzadas con Solicitudes Relacionadas
- Declaración Referente a I & D patrocinadas por Fed
- Referencia a lista secuencial, a una tabla, a listado de programa de computador como apéndice
- Antecedentes de la Invención
- Resumen Breve de la Invención
- Descripción Breve de los Dibujos (si se entregaron)
- Descripción Detallada
- Reivindicación(es)
- Resumen de la Divulgación

4. ☐ Dibujo(s) (35 USC 113) (Total de Páginas)

5. Juramento o Declaración (Total de Páginas)

a. ☒ Firmado por primera vez (original o copia)

b. ☐ Copia de una solicitud anterior (37 CFR 1.63 (d))
(para continuación / división con Casilla 18 llena)

i. ☐ ELIMINACIÓN DE INVENTOR(ES)

Adjunto declaración firmada eliminando el(los) inventor(es)
nombrado(s) en la solicitud anterior, ver 37 CFR 1.63 (d) y

90-5

1.33(b).

6. Hoja de Datos de la Solicitud (ver 37CFR 1.76)
7. Disco compacto de solo Lectura CD-ROM o disco legible CD-R en duplicado, en tabla de gran formato o en Programa de Computador (Apéndice)
8. Presentación de Secuencia de Aminoácidos y/o Nucleótidos
(si es aplicable y/o necesario)
- a. ☐ Copia en medio magnético (copia legible por computador -CRF)
- b. ☒ Especificación de Listado de Secuencias en:
- I. ☐ CD-ROM o CD-R (2 copias); o
- II. ☐ Papel
- c. ☒ Declaración que verifica la identidad de las copias mencionadas arriba

PARTES ADJUNTAS A LA SOLICITUD

9. ☐ Documentos de Cesión (carátula & documento(s))
10. ☐ 37 CFR 3.73(b) Declaración ☒ Poder
(cuando existe cesionario)
11. ☐ Documento de Traducción del Inglés (si se aplica)
12. ☐ Declaración de Divulgación de Información(IDS) /PTO-1449
☐ Copias de citas IDS
13. ☐ Modificación Preliminar
14. ☒ Tarjeta postal de acuso de recibo (MPEP 503)
15. ☐ Copia(s) Certificada(s) del (los) Documento(s) de Prioridad (si se reivindica prioridad en el extranjero)
16. ☐ Solicitud de No-publicación bajo el título 35 del Código de los

91
6/2/21

Estados Unidos 122 (b)(2)(b)(i). El solicitante deberá adjuntar el formulario PTO/SB/35 o su equivalente

17. ☐ Otros _____

18. SI ES UNA CONTINUACION DE SOLICITUD, llene la casilla apropiada y suministre la información que se requiere a continuación y en la primera frase de la especificación a continuación del Título, o en la Hoja de Datos de la Solicitud bajo 37 CFR 1.76.

☐ Continuación

☐ Divisional

☒ Continuación

parcial

de solicitud anterior No. _____ (en blanco)

Información de la solicitud anterior: Examinador: _____

Unidad de Arte: _____

PARA SOLICITUDES DE CONTINUACIÓN O DIVISIONALES únicamente: La totalidad divulgación de la solicitud anterior, de la cual se suministra un juramento o declaración bajo la Casilla 5b, se considerará parte de la divulgación de la solicitud de continuación o divisional adjunta y por el presente forma parte integral de ella por referencia. Dicha incorporación solo puede tenerse en cuenta cuando una porción haya sido omitida inadvertidamente de las partes de la solicitud presentada.

19. DIRECCIÓN DE CORRESPONDENCIA

☐ Número del Cliente ☐ o ☒ Dirección de correspondencia a

92

~~A~~

NOMBRE: CHERSKOV & FLAYNIK

DIRECCIÓN: The Civic Opera Building, Suite 1447, 20North Wacker Drive

CIUDAD: Chicago **ESTADO:** IL **CÓDIGO** **POSTAL:**
60606

PAIS: Estados Unidos **TELÉFONO:** 312-621-1330 **FAX:** 312-621-0088

Nombre: Michael J. Cherskov **No. Registro (Apoderado/Agente)**
(En letra imprenta) 45533

Firma (Firmado) Fecha: Mayo 12, 2004

Esta recolección de información se requiere bajo 37 CFR 1.53(b). La información se requiere para obtener y conservar un beneficio para el público que vaya a presentar (y para los procesos de la Oficina de Patentes y Marcas de los EE.UU.) una solicitud. La confidencialidad se rige por el 35 USC 122 y 37 CFR 1.14. Se estima que esta recolección de información toma 12 minutos en completarse, incluyendo la recopilación, la preparación, y la presentación de la solicitud completa ante la Oficina de Patentes y Marcas de los EE.UU. Esta duración variará dependiendo de las necesidades individuales. Cualesquiera comentarios acerca de la cantidad de tiempo que Ud. requiere para llenar este formulario y/o sugerencias para reducir esta tarea deben enviarse al Funcionario Jefe de Información, Oficina de Patentes y Marcas de los Estados

es
B-9

Unidos, Departamento de Comercio de los Estados Unidos, Casilla Postal P.O.
Box 1450. Alexandria. VA 22313-1450. NO ENVÍE EL VALOR DE LOS
DERECHOS NI FORMULARIOS LENOS A ESTA DIRECCIÓN. ENVÍELOS AL
Comisario para Patentes, P.O. Box 1450, Alexandria VA 22131-1450.

*Si Requiere ayuda en llenar el formulario, favor llamar al 1-800-PTO-9199 y
seleccione la opción 2.*

REIVINDICACIONES

- 1 1. Un TALADRO DE PERCUSIÓN Y DISPOSITIVO EXTRACTOR
2 DE ELEMENTOS DE SUJECCIÓN que comprende:
3 un engranaje de elemento de sujeción con una pluralidad de proyecciones
4 dispuestas alrededor de una porción inferior que engrana con la porción
5 periférica del sujetador, y
6 un elemento de posición con una porción superior que en últimas recibe
7 la fuerza que sobre é se ejerce, dicho elemento de posición con una porción
8 inferior que engrana con una porción superior que coopera, perteneciente a
9 dicho elemento de engranaje de sujeción, que en últimas fuerza a dichas
10 proyecciones de dicho elemento de engranaje de sujeción dentro del sujetador,
11 donde dicho elemento de posición se separa de dicho elemento de engranaje
12 de sujeción, y una herramienta manual se asegura en forma que pueda
13 removerse, a dicho elemento de engranaje de sujeción, para impartirle fuerza
de rotación a dicho elemento de engranaje de sujeción, al remover el sujetador
o insertándolo en una pieza de trabajo.

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1 2. El dispositivo de la reivindicación 1 donde dicha porción superior
2 de dicho elemento de engranaje de sujeción incluye los medios para recibir
3 dicho miembro de posición en forma removible.

1 3. El dispositivo de la reivindicación 2, donde dichos medios
2 removibles para recibir incluyen un receso dispuesto en forma axial, con una
3 configuración que promueve la transferencia de una fuerza de rotación desde la
4 herramienta manual a dicho elemento de engranaje de sujeción.

1 4. El dispositivo de la reivindicación 3 donde dicho miembro de
2 posición incluye una protuberancia dispuesta axialmente configurada para que
3 cooperativamente engrane en dicho receso en dicha porción superior del
4 elemento de engranaje de sujeción por medio del cual la orientación axial de
5 dicho elemento de posición, relativa a dicho elemento de engranaje de sujeción
6 se mantiene, independientemente de la cantidad de fuerza que en últimas se le
7 imparta sobre dicha porción superior de dicho miembro de posición.

1 5. El dispositivo de la reivindicación 1 donde dichas proyecciones
2 están configuradas para penetrar rotacionalmente las porciones
3 correspondientes del sujetador por medio del cual dicho elemento de engranaje
4 de sujeción extrae el sujetador cuando la suficiente fuerza rotativa se imparte
5 sobre dicho elemento de engranaje de sujeción.

1 6. El dispositivo de la reivindicación 1, donde dichas proyecciones

2 están configuradas con precisión.

1 7. Un dispositivo para impartir movimiento rotacional sobre el
2 sujetador que comprende:

3 Un primer elemento de engranaje de sujeción con una apertura dispuesta
4 axialmente, una pluralidad de primeras proyecciones dispuestas sobre la
5 porción inferior, y una porción superior que en últimas recibe la fuerza sobre
6 ella, que fuerza dichas primeras proyecciones dentro de una porción periférica
7 correspondiente del sujetador; y

8 un segundo elemento de engranaje de sujeción con una pluralidad de
9 segundas proyecciones dispuestas sobre la porción inferior que engranan una
10 porción central del sujetador, una porción plana periférica que engrana dicha
11 porción superior plana de dicho primer elemento de engranaje de sujeción, y
12 una porción superior plana que en últimas recibe la fuerza sobre ella, que fuerza
13 dichas primeras y segundas proyecciones en las correspondientes porciones
14 centrales periféricas del sujetador, dicha porción inferior de dicho segundo
15 elemento de engranaje de sujeción extendiéndose axialmente a través de una
16 apertura en dicho primer elemento de engranaje de sujeción para en últimas
17 engranar la porción central del sujetador.

1 8. El dispositivo de la reivindicación 7 donde dicha porción plana
superior de dicho segundo elemento de engranaje de sujeción incluye los
medios para recibir un miembro de posición en forma removible.

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1 9. El dispositivo de la reivindicación 8 donde dichos medios
2 removibles incluyen un receso dispuesto axialmente.

1 10. El dispositivo de la reivindicación 8 donde dicho miembro de
2 posición incluye una protuberancia dispuesta axialmente configurada para
3 cooperar con dicho receso en dicha porción superior del segundo elemento de
4 engranaje de sujeción por medio del cual la orientación axial de dicho elemento
5 de posición, relativa a dicho segundo elemento de engranaje de sujeción se
6 mantiene, independientemente de la cantidad de fuerza que en últimas se le
7 imparta sobre dicha porción superior de dicho miembro de posición.

1 11. El dispositivo de la reivindicación 7 donde dichas primeras
2 proyecciones están configuradas para penetrar las correspondientes porciones
3 del sujetador por medio del cual el primer elemento de engranaje de sujeción
4 imparte una fuerza rotacional sobre la porción periférica del sujetador.

1 12. El dispositivo de la reivindicación 11, donde dichas proyecciones
2 están configuradas con precisión.

1 13. El dispositivo de la reivindicación 7, donde dichas segundas
2 proyecciones están configuradas para penetrar axialmente las porciones
3 correspondientes del sujetador por medio del cual dicho segundo elemento de
engranaje de sujeción imparte fuerza rotativa sobre la porción central del
sujetador.

1 14. El dispositivo de la reivindicación 13 donde dichas segundas
2 proyecciones están configuradas en forma piramidal.

1 15. Un método para engranar múltiples porciones de un sujetador,
2 dicho método comprendiendo los siguientes pasos:

3 suministro de un primer elemento de engranaje de sujeción, con una
4 apertura dispuesta axialmente, una pluralidad de primeras proyecciones
5 dispuestas alrededor de una porción inferior, dichas primeras proyecciones
6 engranando en una porción periférica del sujetador, y una porción superior que
7 en últimas recibe la fuerza sobre ella que fuerza que fuerza dichas primeras
8 proyecciones dentro de una porción periférica del sujetador; y suministra un
9 segundo elemento de engranaje de sujeción, con una pluralidad de segundas
10 proyecciones dispuestas alrededor de una porción inferior central para engranar
11 el central del sujetador,, una porción plana inferior periférica que engrana dicha
12 porción superior plana de dicho primer elemento de engranaje de sujeción, y
13 una porción superior plana que en últimas recibe la fuerza sobre ella que fuerza
14 dichas primeras y segundas proyecciones en las correspondientes porciones
15 centrales periféricas del sujetador, dicha porción inferior de dicho segundo
16 elemento de engranaje de sujeción extendiéndose axialmente a través de una
17 apertura en dicho primer elemento de engranaje de sujeción para en últimas
 engranar la porción central del sujetador.

16. El método de la reivindicación 15 donde el paso de suministrar un

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2 segundo elemento de engranaje de sujeción con una porción superior plana
3 incluye el paso de proporcionar los medios para recibir un miembro de posición
4 sobre él en forma removible.

1 17. El método de la reivindicación 16 donde el paso de suministrar los
2 medios removibles para recibir incluye el paso de suministrar un receso
3 dispuesto en forma axial.

1 18. El método de la reivindicación 17 donde el paso de suministrar los
2 medios para recibir un elemento de engranaje de sujeción removible incluye el
3 paso de suministrarle a dicho elemento de posición una protuberancia dispuesta
4 axialmente configurada para cooperar con dicho receso.

1 19. El método de la Reivindicación 15 donde el paso de suministrar
2 las primeras proyecciones incluye el paso de configurar dichas primeras
3 proyecciones para que penetren rotacionalmente las porciones
4 correspondientes del sujetador por medio del cual dicho primer elemento de
5 engranaje de sujeción imparte una fuerza rotacional sobre la porción periférica
6 del sujetador.

1 20. El método de la Reivindicación 19 donde el paso de configurar
2 dichas primeras proyecciones incluye el paso de configurar dichas primeras
3 proyecciones con precisión.

1 21. El método de la Reivindicación 15 donde el paso de suministrar

2 segundas proyecciones incluye el paso de configurar dichas segundas
3 proyecciones para que penetren axialmente en las porciones correspondientes
4 del sujetador por medio del cual dicho segundo elemento de engranaje de
5 sujeción le imparte una fuerza rotacional sobre la porción central del sujetador.

1 22. El método de la Reivindicación 21 donde el paso de configurar
2 dichas segundas proyecciones incluye el paso de configurar dichas segundas
3 proyecciones en tal forma que incluya una base relativamente grande y un
4 punta relativamente aguda.

ES TRADUCCIÓN FIEL Y COMPLETA de la cual se deja copia en los archivos de esta oficina para su confrontación y a la cual me remito.

Bogotá, Febrero 11, 2005



TRADUCCION OFICIAL No. 15 / 5
JUAN PABLO PIEDRAHITA AGUILERA
TRADUCTOR E INTERPRETE OFICIAL
Reg. 718 DE MAYO 2003
DEL MIN. INTERIOR Y DE JUSTICIA

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APPLICATION NUMBER: 10/844,795

FILING DATE: May 12, 2004

657

TRADUCCION OFICIAL No. _____
JUAN PABLO PILLI A TILA AGUILERA
TRADUCTOR E INTERPRETE OFICIAL
RES. 718 DE MARZO 2003
DEL MIN. INTERIOR Y DE JUSTICIA

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Attorney Docket No.	005201433
First Inventor	Burhan Kozak
Title	IMPACT DRIVER AND FASTENING METHOD
Examiner Mail Label No.	ER06188146US

Only for new commercial applications under 37 CFR 1.53(b)(1)

8277 U.S. PTO
10/644795

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1. ☒ Fee Transmittal Form (e.g., PTO/SB17) (Submit an original and a duplicate for fee processing)
2. ☒ Applicant claims small entity status. See 37 CFR 1.27.
3. ☒ Specification [Total Pages 30]
(numbered consecutively on both sides)
- Description of the invention
 - Cross References to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the invention
 - Brief Summary of the invention
 - Brief Description of the Drawings (if any)
 - Detailed Description
 - Claims
 - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 28]
5. Oath or Declaration [Total Sheets 2]
- a. ☒ Newly executed (original or copy)
- b. ☐ Copy from a prior application (37 CFR 1.83(d)) (for continuation/divisional with Box 18 completed)
6. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.834(a)(2) and 1.834(b).
7. ☐ Application Data Sheet. See 37 CFR 1.79

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, if necessary)
- a. ☐ Computer Readable Form (CRF)
- b. Specification Sequence Listing on:
- i. ☐ CD-ROM or CD-R (2 copies); or
- ii. ☐ Paper
- c. ☐ Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

8. ☐ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement ☒ Power of Attorney
(when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure ☐ Copies of IDS
Statement (IDS/PTO-1449) ☐ Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 803)
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16. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
18. ☐ Nonpublication Request under 35 U.S.C. 122
(b)(2)(3)(i). Applicant must attach form PTO/GB/35
or its equivalent.
17. ☐ Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the modification following the title, or in an Application Data Sheet under 37 CFR 1.76:

☐ Construction ☐ Division ☐ Construction-in-progress (CIP) of order application No. _____

Prior application information: Examiner Art Unit
 For CONFIDENTIAL OR CONFIDENTIAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5B, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon where a portion has been inadvertently omitted from the submitted application parts.

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Signature				Date	May 12, 2001

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FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual review.

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (3) 403.00

Complete if Known

Application Number	
Filing Date	
First Named Inventor	Burton Kozak
Examiner Name	
Art Unit	
Attorney Check No.	0052/01433

METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None☐ Deposit Account

Deposit Account Number	501708
Deposit Account Name	Cherakov & Flayrak

The inventor is authorized to: (check all that apply)

☐ Charge fees indicated below ☒ Credit my overpayments☒ Charge any additional fees) or any underpayment of fees)☐ Charge fees indicated below, except for the filing fee to the above identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE			
Large Entity Code (0)	Small Entity Code (0)	Fee Description	Fee Paid
1001 770	2001 305	Utility filing fee	305.00
1002 340	2002 170	Design filing fee	
1003 600	2003 300	Plant filing fee	
1004 770	2004 300	Reissue filing fee	
1005 100	2005 50	Provisional filing fee	
SUBTOTAL (1)			(3) 305.00

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee Based	Fee Paid
22	2	0	0
3	0	0	0

Multiple Dependent

Large Entity Small Entity			
Fee Code (0)	Fee Code (0)	Fee Description	Fee Paid
1202 10	2202 0	Claims in excess of 20	
1201 00	2201 45	Independent claims in excess of 3	
1203 200	2203 145	Multiple dependent claims, if not paid	
1204 00	2204 45	** Release independent claims over original patent	
1205 10	2205 0	** Release claims in excess of 20 and over original patent	
SUBTOTAL (2)			(3) 18.00

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FEE CALCULATION (continued)

3. ADDITIONAL FEES			
Large Entity Code (0)	Small Entity Code (0)	Fee Description	Fee Paid
1001 100	2001 45	Surcharge - late filing fee or oath	
1002 30	2002 30	Surcharge - late provisional filing fee or cover sheet	
1003 130	2003 130	Non-English specification	
1012 2,000	2012 2,000	For filing a request for an oral presentation	
1004 600	2004 600	Requesting publication of BRI prior to Examiner action	
1005 1,040	2005 1,040	Requesting publication of BRI after Examiner action	
1201 110	2201 30	Extension for reply within first month	
1202 400	2202 210	Extension for reply within second month	
1203 900	2203 470	Extension for reply within third month	
1204 1,400	2204 740	Extension for reply within fourth month	
1205 2,010	2205 1,030	Extension for reply within fifth month	
1401 300	2401 100	Notice of Appeal	
1402 300	2402 100	Filing a brief in support of an appeal	
1403 300	2403 140	Request for oral hearing	
1401 1,010	2401 1,010	Petition to institute a public use proceeding	
1402 110	2402 00	Petition to reissue - unavoidable	
1403 1,300	2403 600	Petition to reissue - avoidable	
1001 1,300	2001 600	Utility issue fee (for release)	
1002 400	2002 240	Design issue fee	
1003 640	2003 300	Plant issue fee	
1403 130	2403 130	Petition to the Commissioner	
1007 00	2007 00	Processing fee under 37 CFR 1.17(c)	
1008 100	2008 100	Submission of Information Checkers Sheet	
0001 40	2001 40	Recording each patent assignment per property (lease number of properties)	
1003 770	2003 300	Filing a submission after final rejection (37 CFR 1.120(d))	
1010 770	2010 300	For each additional invention in the claimant (37 CFR 1.120(d))	
1001 770	2001 300	Request for Continued Examination (RCE)	
1002 600	2002 600	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (3) 0.00

SUBMITTED BY		Complete if applying	
Name (Print/Type)	Michael J. Cherakov	Registration No.	32,804
Signature	<i>Michael J. Cherakov</i>	Telephone	312-821-1330
		Date	May 12 2004

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**IMPACT DRIVER AND
FASTENER REMOVAL DEVICE**

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates generally to fastener extraction devices and, more particularly, to fastener impact devices for extracting a fastener from or inserting a fastener into a workpiece by striking the device with a hammer to force grasping projections into the head of the fastener, then removably securing a hand too to the device to impart rotary motion to the device thereby rotating the fastener in a predetermined direction.

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2. Background of the Invention

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Fastener extraction devices are well known and are generally designed to remove broken stud bolts and to extract one-way fasteners by the device with a rotary drive tool such as a ratchet. However, few of the prior art fastener extraction devices are designed to receive a strike from an impact tool such as a hammer to force "biting" edges or projections of the extraction device into the head of the fastener to allow the extraction device to "grasp" the fastener head and forcibly rotate the head in a predetermined direction with a rotary drive tool. Examples of prior art fastener extraction designs that can receive a forceful blow from an object such as a hammer are illustrated in U.S. patents 4,875,289; and 4,026,338. Further, the prior art impact designs include projections that are limited in number, that engage the fastener head at less than optimum portions and that are designed to "assist" a primary rotational driver (the blade of a screwdriver) to rotate the fastener.

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A problem with the prior art impact extraction designs is that the edges or projections are to few in number or are imbedded sufficiently deep into the fastener head and ultimately "break free" from the fastener head before sufficient rotational force is generated to extract the fastener from the workpiece. Another problem with the prior art designs is that the projections cannot be driven sufficiently deep into the fastener head without damaging the device with a forceful hammer strike. Yet another problem with the prior art designs is that a deformed or damaged fastener head may include portions that cannot be engaged by corresponding projections from the extraction device resulting to few projections engaging the fastener head to provide sufficient rotational force to remove or insert the fastener from or into the workpiece.

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5 A need exists in the art for a fastener impact driver device that includes edges and/or
projections sufficient in quantity and design to grasp and rotate a fastener head. Further, the
device must be capable of receiving forceful impact without being damaged. Also, the device
10 must be sufficiently adjustable to cause all projections extending therefrom to engage
corresponding portions of the fastener head thereby promoting the rotation of the fastener into or
15 from a workpiece.

SUMMARY OF THE INVENTION

It is an object of the present invention to provide a fastener impact driver device thereby
overcoming many of the disadvantages of the prior art.

A principal object of the present invention is to provide a fastener impact driver device
25 that removes or inserts a fastener into a workpiece. A feature of the device is a fastener
engagement member with projections that insert into and "grasp" a peripheral portion of a
fastener head. An advantage of the device is that it transfers rotary motion from a hand tool to
3 the fastener head.

Another object of the present invention is to provide a device capable of receiving a
hammer strike thereupon. A feature of the device is a positioning member that is axially aligned
10 with and removably inserted into the fastener engagement member via a protuberance extending
from the positioning member and snugly inserting into a recess in the fastener engagement
15 member. An advantage of the device is that the positioning member "protects" the fastener
engagement member from being deformed or otherwise damaged by hammer strikes. Another
advantage of the device is that the positioning member transfers the driving force of the hammer
20 to the fastener engagement member thereby forcing the projections of the fastener engagement

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member to be driven into the fastener head. Still another advantage of the device is that the positioning member is removable from the fastener engagement member to allow a hand tool to be inserted into the recess in the fastener engagement member and impart rotary motion thereupon to ultimately rotate the fastener head to insert the fastener into or extract the fastener from a workpiece.

Still another object of the present invention is to provide alternative projection configurations. A feature of the device is a selection of fastener engagement members that have varying projection configurations that includes linear or arcuate. An advantage of the device is that rotary motion imparted upon the fastener head by a fastener engagement member may be increased by using an arcuate projection configuration.

Yet another object of the present invention is to provide a device that protects the fingers of a user of the device. A feature of the device is an extension that is integrally joined to a lower portion of the positioning member and extends around an upper peripheral portion of the fastener engagement member. An advantage of the device is that the fingers of the user will not be pinched between the bottom wall of the positioning member and a top wall of the fastener engagement member.

Another object of the present invention is to provide an alternative fastener engagement member. A feature of the device is a lower annular planar surface that includes pyramid configured projections extending therefrom which cooperates with the peripheral projections to increase the grasp of the fastener engagement member upon the fastener head. An advantage of the device is that peripheral and central portions of the fastener head are grasped and rotated by the fastener engagement member thereby increasing the quantity of rotary force imparted upon

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the fastener to ultimately insert or extract the fastener into or from a workpiece.

Another object of the present invention is to provide an alternative fastener impact driver
5 device. A feature of the device is a first fastener engagement member that includes an aperture
axially disposed therethrough. An advantage of the device is that a damaged or deformed
fastener head that ordinarily would not be engaged by a single fastener engagement member can
10 ultimately be engaged by a second fastener engagement member that is independent of the first
fastener engagement member.

15 Another object of the present invention is to provide an alternative fastener impact driver
device having first and second fastener engagement members that engage cooperating peripheral
and central portions of a fastener head. A feature of the device is projections protruding from
lower portions of the first and second fastener engagement members that independently grasp
respective peripheral and central portions of the fastener head when a hammer is struck upon a
20 positioning member disposed upon a top wall of the second fastener engagement member. An
advantage of the device is that rotary motion is imparted upon peripheral and central portions of a
deformed fastener head to extract or insert the fastener head from or into a workpiece.

Another object of the present invention is to provide an alternative fastener impact driver
device capable of receiving a hammer strike without damaging the first and second fastener
25 engagement members. A feature of the device is a positioning member that is axially aligned
with and removably inserted into the second fastener engagement member via a protuberance
extending from the bottom wall of the positioning member and snugly inserting into a recess in
the top wall of the second fastener engagement member. An advantage of the device is the

positioning member is readily removed from the top wall of the second fastener engagement member to allow a hand tool to be inserted in the recess in the top wall thereby providing rotary motion to the first and second fastener engagement members to ultimately rotate the fastener head to insert the fastener into or extract the fastener from a workpiece.

Briefly, the invention provides a fastener impact driver device comprising a fastener engagement member having a plurality of projections disposed about a lower portion that engages a peripheral portion of a fastener, and a positioning member having an upper portion that ultimately receives a force thereupon, said positioning member having a lower portion that engages a cooperating upper portion of said fastener engagement member whereby a force imparted upon said upper portion of said positioning member ultimately forces said projections of said fastener engagement member into the fastener whereupon said positioning member is removed from said fastener engagement member and a hand tool is removably secured to said fastener engagement member to impart rotary force to said fastener engagement member thereby removing the fastener from or inserting the fastener into a workpiece.

BRIEF DESCRIPTION OF THE DRAWINGS

The foregoing invention and its advantages may be readily appreciated from the following detailed description of the preferred embodiment, when read in conjunction with the accompanying drawings in which:

Figure 1 is a perspective view of a fastener impact driver device, in accordance with features of the present invention;

Figure 2 is an exploded perspective view of a similar fastener impact driver device, in accordance with features of the present invention;

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Figure 3 is a top elevation view of a fastener engagement member of the device of figure 1 in accordance with features of the present invention;

Figure 4 is a bottom elevation view of the fastener engagement member of figure 3;

Figure 5 is a side elevation view of the fastener engagement member of figure 3;

Figure 6 is a sectional side view of the fastener engagement member of figure 3 taken along line 6-6 of figure 3;

Figure 7 is a top elevation view of a positioning member of the device of figure 1 in accordance with features of the present invention;

Figure 8 is a bottom elevation view of the positioning member of figure 7;

Figure 9 is a side elevation view of the positioning member of figure 7;

Figure 10 is a sectional side view of the positioning member of figure 7 taken along line 10-10 of figure 7;

Figure 11 is a bottom elevation view of the fastener engagement member as depicted in figure 4 but with arcuate projections configured to facilitate the removal of a fastener from a workpiece in accordance with features of the present invention;

Figure 12 is a sectional side elevation view of the fastener engagement member as depicted in figure 6 but with arcuate projections configured to facilitate the removal of a fastener from a workpiece in accordance with features of the present invention;

Figure 13 is a bottom elevation view of the fastener engagement member as depicted in figure 4 but with arcuate projections configured to facilitate the insertion of a fastener into a workpiece in accordance with features of the present invention;

Figure 14 is a sectional side elevation view of the fastener engagement member as

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depicted in figure 6 but with arcuate projections configured to facilitate the insertion of a fastener into a workpiece in accordance with features of the present invention;

5 Figure 15 is a side elevation view of the projections depicted in figures 4 and 6, the projections having lineal cutting edges;

10 Figure 16 is a side elevation view of the projections of figure 15, but with an arcuate cutting edge in accordance with features of the present invention;

15 Figure 17 is a side elevation view of the arcuate projections depicted in figures 11 and 12, the projections having lineal cutting edges;

20 Figure 18 is a side elevation view of the projections of figure 17, but with an arcuate cutting edge in accordance with features of the present invention;

25 Figure 19 is a side elevation view of the arcuate projections depicted in figures 13 and 14, the projections having lineal cutting edges;

30 Figure 20 is a side elevation view of the projections of figure 19, but with an arcuate cutting edge in accordance with features of the present invention;

35 Figure 21 is a bottom perspective view of the fastener engagement member depicted in figure 4, but with an alternative design for a recess in a lower portion in accordance with features of the present invention;

40 Figure 22 is a sectional side view of the fastener engagement member depicted in figure 21;

45 Figure 23 is a perspective view of an alternative fastener impact driver device in accordance with features of the present invention;

Figure 24 is an exploded perspective view of the device of figure 23;

Figure 25 is a top elevation view of a first fastener engagement member of the device of

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figure 23 in accordance with features of the present invention;

Figure 26 is a bottom elevation view of the first fastener engagement member of figure 25;

Figure 27 is a side elevation view of the first fastener engagement member of figure 25;

Figure 28 is a sectional side view of the first fastener engagement member of figure 25 taken along line 28-28 of figure 25;

Figure 29 is a top elevation view of a second fastener engagement member of the device of figure 23 in accordance with features of the present invention;

Figure 30 is a bottom elevation view of the second fastener engagement member of figure 29;

Figure 31 is a side elevation view of the second fastener engagement member of figure 29;

Figure 32 is a sectional side view of the second fastener engagement member of figure 29 taken along line 32-32 of figure 29;

Figure 33 is top elevation view of a positioning member of the device of figure 23 in accordance with features of the present invention;

Figure 34 is a bottom elevation view of the positioning member of figure 33;

Figure 35 is a side elevation view of the positioning member of figure 33;

Figure 36 is a sectional side view of the positioning member of figure 33 taken along line 36-36 of figure 33;

Figure 37 is a perspective view of an alternative positioning member which includes an extension to protect an operators fingers. The alternative positioning member may be utilized with either version of the fastener impact driver device; and

Figure 38 is a sectional side view (without the positioning member) of the alternative

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impact driver device of figure 23 engaging the fastener head;

DESCRIPTION OF THE PREFERRED EMBODIMENT

5 Referring now to the drawings and in particular to figures 1-9, a fastener impact driver
device 10 in accordance with the present invention, is denoted by numeral 10. The device 10
includes a fastener engagement member 12 having a plurality of projections 14 disposed about a
10 lower portion 16 that engages a corresponding peripheral portion 18 of a fastener 20. The device
has many applications, but the preferred use is for extracting a one way fastener which is the
15 fastener 20 depicted in figure 1. The device 10 further includes a positioning member 22 having
an upper portion 24 that ultimately receives a force thereupon, said positioning member 22
having a lower portion 26 that engages a cooperating upper portion 28 of the fastener
20 engagement member 12 whereby a force (a hammer strike) is imparted upon the upper portion 24
of the positioning member 22 to drive the projections 14 of the fastener engagement member 12
25 into the fastener 20 without damage to the fastener engagement member 12, whereupon the
positioning member 22 is removed from the fastener engagement member 12 and a hand tool
(not pictured) is removably secured to the fastener engagement member 12 to impart rotary force
30 to the fastener engagement member 12 and the fastener 20 thereby removing the fastener 20 from
or urging the fastener 20 into a workpiece (not pictured).

35 The fastener engagement member 12 and positioning member 22 are fabricated from a
rigid, non-deformable material such as steel. The fastener engagement member 12 includes an
axially disposed recess 30 in the upper portion 28 for removably receiving a protuberance 32
40 integrally joined to the positioning member 22. The recess 30 and protuberance 32 are
cooperatively configured to maintain the axial orientation of the positioning member 22 relative

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to the fastener engagement member 12 irrespective of the quantity of force ultimately imparted upon the upper portion 24 of the positioning member 22. Although the recess 30 may include a cylindrical configuration thereby allowing rotation protuberance 32 within the recess 30, the preferred recess 30 configuration is substantially square as depicted in the top view of figure 2. The square configuration of the recess 30 promotes the transfer of rotary motion from the hand tool, which typically includes a substantially square configured protuberance, to the fastener engagement member 12 and ultimately to the fastener 20, when a user of the device 10 attempts to remove the fastener 20 from or urge the fastener 20 into a workpiece. Optionally, an exterior, circumferentially extending surface 13 of the fastener engagement member 12 is configured as a plurality of flat regions so as to enhance gripping of the member by a wrench.

Referring now to figures 4 and 6, the projections 14 in the lower portion 16 of the fastener engagement member 12 are substantially radial, triangular configured "teeth" that extend from a relatively annular peripheral portion 34 of a concave recess 36 to a "saw tooth" configured bottom edge 38. An alternative configuration to the radially configured projections 14 of figures 4 and 6, are the arcuately configured projections 40 and 42 of figures 11,12 and 13,14, respectively. The arcuate configuration of the projections 40 of figures 11 and 12, facilitate the removal of the fastener 20 from a workpiece. The arcuate configuration of the projections 42 of figures 13 and 14, facilitate the insertion of the fastener 20 into the workpiece. The arcuate configurations 40 and 42 resist deformation as rotary motion is imparted upon a fastener head 44 portion of the fastener 20 by the projections 40 and 42 thereby providing an increase in rotary motion that can be transferred from the fastener engagement member 12 to the fastener 20 to prevent the projections from "breaking free" from the fastener head 44 and

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spinning upon the surface of the peripheral portion 18 of the fastener head 44.

The projections 14 have predetermined bottom configurations (as depicted in figures 4-
5 6 and 11-14) that promote the transfer of rotary motion from a hand tool to the fastener 20.

Furthermore, the projections 14 have a predetermined side configurations as depicted in figures
10 15-20 that promote the insertion of the projections 14 into the surface of the fastener head 44 as
the fastener engagement member 12 is urged against the fastener head 44 by a hand tool
engaging the fastener engagement member 12, or by a hammer forcibly striking a positioning
15 member 22 disposed upon an upper portion 28 of the fastener engagement member 12.

Referring to figure 15, the projections 14 include a substantially lineal cutting edge 46
20 that "cuts" or "saws" into the surface of the fastener head 44 when the fastener engagement
member 12 receives a driving force thereupon. The configuration of the cutting edge 46 is
generally smooth and continuous, however, the edge 46 may include serrations to promote the
25 insertion of the edge 46 into the fastener head 44. The cutting edge 46 of figures 15 and 16, may
be used to rotate virtually any fastener head 44 except a head that is countersunk below the
surface of a workpiece. The lineal cutting edge 46 of figures 15 and 16 will grasp less of the
30 fastener head 44 as the configuration of the head 44 becomes more round thereby reducing the
amount of rotational force that may be applied to the fastener 20.

35 Referring to figure 16, the projections 14 are depicted as being arcuate with an arcuate
cutting edge 48 to facilitate increased engagement between the cutting edge 48 and a
substantially round or oval fastener head 44. The projections 14 are radially disposed relative to
40 the annular peripheral portion 34 of the concave recess 36 when taking a bottom view of the
fastener engagement member 12. The configuration of the projections 14 of figure 16 promote

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the insertion of the edge 48 into the rounded fastener head 44.

Referring to figures 17-20, side views of arcuate projections 40 and 42 are depicted as
5 being lineal 50 or arcuate 52 to correspond to the configuration of the fastener head 44. The
more oval the head configuration, the more arcuate the projection thereby providing sufficient
engagement between the projections 40 and 42 and the fastener head 44 to promote the rotation
10 of the fastener 20 into or out of a workpiece.

Referring now to figures 5, the fastener engagement member 12 includes a beveled
15 portion 54 extending from the annular bottom edge 38 to an outer cylindrical side wall 56 of the
fastener engagement member 12. The beveled portion 54 prevents the lower portion 16 of the
fastener engagement member 12 from engaging a workpiece before the projections 14 of the
20 engagement member 12 are inserted into the fastener 20 thereby promoting sufficient
engagement between the projections 14 and the fastener head 44 such that the fastener
engagement member 12 is capable of driving the fastener 20 into or removing the fastener 20
25 from a workpiece.

Furthermore, the beveled portion 54 promotes flexibility in the lower portion 16 of the
30 fastener engagement member 12. As the arcuate cutting edges 48 of the projections 14 gouge
into the peripheral portion 18 of the fastener head 44, the beveled portion 54 allows the annular
bottom edge 38 to expand radially outward from the axis of the engagement member 12 thereby
35 forcing the cutting edges 48 of the projections 14 to congruently engage corresponding portions
of the fastener head 44 even with the initial configuration of the cutting edges 48 being relatively
40 dissimilar to the configuration of the fastener head 44. The congruent engagement between the
cutting edges 48 and the fastener head 44 increases the "grip" of the fastener engagement

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member 12 upon the fastener head 44 to promote the insertion or removal of the fastener 20.

Should the configurations of the cutting edges 46 and the fastener head 44 be substantially

5 dissimilar, the annular bottom edge 38 will not expand sufficiently to promote congruent
engagement between the cutting edges 48 and the fastener head 44. The expanding bottom edge
10 38 will also promote congruent engagement between the arcuate cutting edges 52 of the arcuately
configured projections 40 and 42. The lineal cutting edges 46 and 50 of the projections 14, 40
and 42 will limit expansion of the annular bottom edge 38 thus reducing engagement between the
15 projections and a corresponding fastener head 44 and proportionately reducing the amount of
rotary motion that may be transferred from the fastener engagement member 12 and the fastener
20 20.

The recess 30 in the lower portion 16 of the fastener engagement member 12 is
configured to receive a central portion 58 (see figure 2) of the fastener head 44 of the fastener 20
25 to promote the unobstructed engagement between the projections 14 and the peripheral portion
18 of the fastener head 44. The recess 30 must be dimensioned to receive the fastener head 44
irrespective of the type of fastener 20 (one-way, arcuate, flat or damaged), and to allow a
30 projection 14 length that promotes maximum contact between the cutting edges 46, 48 and the
peripheral portion 18 of the fastener head 44.

35 Referring now to figures 21 and 22, an alternative design for the recess 30 in the lower
portion 16 of the fastener engagement member 12 is depicted. In place of the recess 30, the
engagement member 12 includes a planar surface 60 having a plurality of pyramid configured
40 points or projections 62 extending from the surface 60 to ultimately engage and grasp the central
portion 58 of the fastener head 44. The alternative design provides increased gripping capability

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for the fastener engagement member 12 when used to impart rotational force to insert or extract a fastener 20 with a worn head 44 or with a head 44 configuration that limits engagement between the projections 14 and the peripheral portion 18 of the fastener head 44. The pyramid projections 62 and the cutting edges 46 or 48 of the projections 14 engage some but not all portions of the fastener head 44, but the combined "bite" of the edges 46 and pyramid projections 62 promote a transfer of rotary force sufficient to insert or remove a fastener 20 into or from a workpiece.

In operation, a fastener engagement member 12 is selected to extract or insert a fastener 20 into a workpiece. Although the application of the fastener engagement member 12 is extensive, the preferred use of the member 12 is to extract a one way fastener 20 from a workpiece. The fastener engagement member 12 is positioned upon the fastener 20 such that the projections 14 engage a peripheral portion 18 of the fastener head 44. A hammer or similar blunt instrument is struck upon a top wall or upper portion 28 to force the projections 14 into the fastener head 44. A hand tool such as a ratchet with a protuberance extending therefrom is inserted into a recess 30 in the upper portion 28 thereby imparting rotary motion upon the fastener engagement 12 and ultimately upon the fastener head 44 via the projections 14 to extract the fastener 20 from a workpiece. To prevent the fastener engagement member 12 from being deformed by hammer strikes, a positioning member 22 is disposed upon the fastener engagement member 12. The axial orientation of the positioning member 22 relative to the fastener engagement member 12 is maintained irrespective of the quantity of force ultimately imparted upon the upper portion of the positioning member 22 by a protuberance 32 extending from a lower portion 26 of the positioning member 22 into the recess 30 of the fastener engagement member 12. Upon driving the projections 14 into the fastener head 44, the positioning member

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22 is removed and the hand tool substituted therefor to rotate the fastener engagement member 12 and extract the fastener 20.

5 Should an operator become careless when using the present invention, one or more fingers could be "pinched" between the positioning member 22 and the fastener engagement member 12. To prevent finger injury, a modification of the positioning member 22 in accordance
10 with the present invention is depicted in figure 37. The modified positioning member 23 includes a tapered extension 25 with a cylindrical recess that snugly receives the upper portion 28
15 of the fastener engagement member 12 such that the operator's fingers are prevented from engaging the upper portion 28 of the fastener engagement member 12 when the operator strikes the upper portion 24 of the modified positioning member 23 with a hammer.

20 Some fasteners 20 selected for removal have corroded, deformed or otherwise damaged heads 44 which require a fastener engagement member 12 with modifications that provide added
25 gripping capability to extract the fastener 20. The modifications include changing the configuration of the projections 14 to include an arcuate configuration 48, 50 and 52.

30 Further modifications include the addition of pyramid configured projections 62 to a planar surface 60 in a central portion of the fastener engagement member 12. The pyramid projections 62 grasp a central portion 58 of the fastener head 44 thereby cooperating with the arcuate
35 projections to increase the grip of the fastener engagement member 12 upon the fastener head 44 to ultimately increase the quantity of rotary motion imparted upon the fastener 20 to remove the fastener 20 from a workpiece. Unfortunately, some fasteners 20 are damaged so severely that all
40 the aforementioned options prove ineffective. To rotate these damaged fasteners 20, further modifications are required.

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Referring now to figures 23-36, and 38, an alternative fastener impact driver device in accordance with the present invention, is denoted by numeral 80. The alternative device 80 includes a first fastener engagement member 82 having a cylindrical side wall 83 and a plurality of first projections 84 disposed upon a concave, relatively annular configured, when taking a bottom view, bottom wall 86 that engages a corresponding peripheral portion 88 of a fastener 90. The first fastener engagement member 82 has an annular top planar wall 87, when taking a top view, that ultimately receives a force thereupon that forces the first projections 84 into the corresponding peripheral portion 88 of the fastener 90. The alternative device 80 further includes a second fastener engagement member 92 having a cylindrical side wall 85 and a plurality of second projections 94 disposed upon a bottom portion 96 that engages a corresponding central portion 98 of the fastener 90. The second fastener member 92 has an annular bottom wall 100 that engages the top wall 87 of the first fastener engagement member 82. The second fastener member 92 has an annular top planar wall 102, when taking a top view, that ultimately receives a force thereupon that forces the first and second projections 84 and 94 into corresponding peripheral and central portions 88 and 98 of the fastener 90. The bottom portion 96 of the second fastener engagement member 92 extends through an aperture 104 in the first fastener engagement member 82 to ultimately engage the central portion 98 of the fastener 90.

Referring to figures 23-28, the first fastener engagement member 82 is fabricated from a rigid, non-deformable material such as steel. The aperture 104 is axially disposed and extends through the first fastener engagement member 82. The aperture 104 has a square configuration, when taking a top view of the member 82, to promote the transfer of rotary motion from the second fastener engagement member 92 to the first fastener engagement member 82. The first

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projections 84 are disposed about the concave bottom wall 86 to form a recess 106 or cavity that receives a similarly configured peripheral portion 88 of the fastener 90. The first projections 84 are substantially radial, triangular configured "teeth" that extend from an edge 108 formed at the bottom of the aperture 104 to a "saw tooth" configured bottom edge 110. The configuration of the first projections 84 may be altered to include the same arcuate cutting edge 48 as described above for the lineal projections 14, and the same arcuate edge 52 as described above for the arcuate projections 40 and 42 of the fastener engagement member 12 of the fastener impact driver device 10 (see figures 4-20). Arcuately configured first projections 84 facilitate the removal or insertion of the fastener 90 from or into a workpiece. Arcuately configured first projections reduce deformation of the projections as the first fastener engagement member 82 transfers rotary motion to the fastener 90 thereby increasing the quantity of rotary motion transferred before the projections break away from fastener 20.

Referring to figures 25-28, the first projections 84 include a substantially lineal cutting edge 116 that "cuts" into the surface of the fastener head 114 when the first fastener engagement member 82 receives a driving force thereupon. The configuration of the cutting edge 116 is generally smooth and continuous, but the edge 116 may include serrations to promote the "sawing" of the edge 116 into the fastener head 114. The cutting edge 116 may be used to rotate most fastener heads protruding above the surface of a workpiece. The lineal cutting edge 116 will grasp less of the fastener head 114 as the configuration of the head 114 becomes more round thus reducing the amount of rotational force that may be applied to the fastener 90.

The first projections 84 may be arcuate with an arcuate cutting edge to facilitate increased engagement between the arcuate cutting edge and a substantially round or oval fastener head 114.

The first projections 84 are radially disposed relative to the annular peripheral portion 108 when taking a bottom view of the first fastener engagement member 82. The arcuate configuration of the first projections 84 promote the insertion of the edge 118 into a rounded fastener head 114. The more oval the head configuration, the more arcuate the first projection thereby providing sufficient engagement between the first projections and the fastener head 114 to promote the rotation of the fastener 90 into or out of a workpiece.

Referring to figures 23-28, the first fastener engagement member 82 includes a beveled portion 120 that serves the same function as the beveled portion 54 described above. More specifically, the beveled portion 120 prevents any lower portion of the first engagement member 82 from engaging a workpiece before the first projections 84 are inserted into the fastener 90 thereby promoting sufficient engagement between the first projections 84 and the fastener head 114. Furthermore, the beveled portion 120 promotes flexibility in the lower portions of the first fastener engagement member 82. As the arcuate cutting edges 118 of the first projections 84 gouge into the peripheral portion 88 of the fastener head 114, the beveled portion 120 allows the annular bottom edge 122 to expand radially outward from the axis of the first engagement member 82 thereby forcing the cutting edges 118 of the first projections 84 to congruently engage corresponding portions of the fastener head 114 even with the initial configuration of the cutting edges 118 being relatively dissimilar to the configuration of the fastener head 114. The congruent engagement between the cutting edges 118 and the fastener head 114 increases the "grip" of the first fastener engagement member 82 upon the fastener head 114 to promote the insertion or removal of the fastener 90. Should the configurations of the cutting edges and the fastener head 114 be substantially dissimilar, the annular bottom edge 122 will not expand

sufficiently to promote congruent engagement between the cutting edges 118 and the fastener head 114. The expanding bottom edge 122 will also promote congruent engagement between the arcuate cutting edges of the first arcuately configured projections 118. The lineal cutting edges of the first projections 84 will limit expansion of the annular bottom edge 122 thus reducing engagement between the first projections 84 and a corresponding fastener head 114 thereby proportionately reducing the amount of rotary motion that may be transferred from the first fastener engagement member 82 and the fastener 90.

Referring to figures 29-32, the second fastener engagement member 92 is fabricated from a rigid, non-deformable material such as steel. The second fastener engagement member 92 includes a substantially square protuberance, when taking a bottom view, that snugly inserts through the similarly configured aperture 104 in the first fastener engagement member 82 to promote engagement between the second projections 94 of the lower portion 96 of the second fastener engagement member 92 and the central portion 98 of the fastener head 114. Further, the cooperating square configurations transfer rotary motion from the second fastener engagement member 92 to the first fastener engagement member 82. The protuberance 124 is axially dimensioned to extend from the top wall 87 of the first fastener engagement member 82 to the central portion 98 of the fastener head 114 such that the second projections 94 will be urged into the central portion 98 a predetermined dimension when sufficient force (such as a hammer strike) is imparted upon the top wall 102 of the second fastener engagement member 92. The imbedded second projections 94 "grasp" the central portion 98 of the fastener head 114 thereby increasing the rotational motion imparted upon the fastener 90 when a hand tool rotates the second fastener engagement member 92.

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The second fastener engagement member 92 further includes an axially disposed recess 126 having a substantially square configuration, when taking a top view, and dimensioned laterally and longitudinally to cooperatively receive a comparably configured protuberance 128 extending from a bottom wall 129 of a positioning member 130 or alternatively, to cooperatively receive a hand tool protuberance (not pictured). The recess 126 allows rotational force to be imparted upon the second fastener engagement member 92 (and ultimately to the first fastener engagement member 82 and the fastener 90) after a hammer or similar object strikes the top wall 102 of the second fastener engagement member 92 thus forcibly driving the first and second projections 84 and 94 into cooperating portions 88 and 98 of the fastener head 114. Some fasteners 90 resist the insertion of the first and second projections 84 and 94 into the fastener head 114 unless a great amount of force is impacted upon the top wall 102 of the second fastener engagement member 92 which can damage the member 92. To prevent this from occurring, a positioning member 130 is placed upon the top wall 102 of the second fastener engagement member 92.

Referring to figures 33-36, a positioning member 130 fabricated from steel includes a cylindrical side wall 132, a planar top wall 134, a planar bottom wall 129 and an axially disposed, substantially square configured protuberance 128 extending therefrom. The protuberance 128 is snugly inserted into the recess 126 of the second fastener engagement member 92 thereby maintaining the position of the positioning member 130 relative to the second fastener engagement member 92 when a hammer or similar force strikes the top wall 134 of the positioning member 130. The positioning member 130 is a solid piece of metal that resists damage while protecting the second fastener engagement member 92. Upon inserting the first

and second projections 84 and 94 into the fastener head 114, the positioning member 130 is removed and a square configured protuberance from a hand tool inserted into the recess 126 thereby providing rotary motion to the peripheral and central portions 88 and 98 of the fastener head 114. When the fastener 90 is being removed and a sufficient quantity of the fastener 90 has been extracted from a workpiece, less rotary motion is required to totally remove the fastener 90 from the workpiece. Thus, the second fastener engagement member 92 may be removed from the first fastener engagement member 82, and the hand tool protuberance inserted into the aperture 104 in the first member 82 thereby simplifying the extraction of the fastener 90 by utilizing only the first fastener engagement member 82 to remove the fastener 90.

In operation, the alternative fastener impact driver device 80 is utilized when a fastener head 114 (in particular a one way fastener head) is configured, deformed, corroded or otherwise damaged to such a degree that the fastener impact driver device 10 described above provides insufficient engagement and/or gripping capability between the fastener engagement member 12 and the fastener head 114 thereby failing to rotate and extract the fastener 90 from a workpiece. When utilizing the alternative fastener impact driver device 80, the user first selects one of a plurality of sequentially sized first fastener engagement member 82. The selected first fastener engagement member 82 is configured and dimensioned to cause first projections 84 of the first member 82 to engage a peripheral portion 88 of the fastener head 114. The first fastener engagement member 82 is then set upon the fastener head 114. The user then selects one of a plurality of sequentially sized second fastener engagement members 92. The selected second fastener engagement member 92 is configured and dimensioned to cause second projections 94 of the second member 92 to engage a central portion 98 of the fastener head 114, and to cause a

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bottom wall 100 of the second member 92 to engage a top wall 87 of the first member 82
irrespective of the configuration of the fastener head 114. The second fastener engagement
5 member 92 includes a protuberance 124 that snugly inserts into and through an aperture 104 that
extends through the first fastener engagement member 92 to maintain the axial position of the
10 second member 92 upon the first member 82 and to allow the second projections 94 to engage
the central portion 98 of the fastener head 114. Upon disposing the second member 92 upon the
first member 82, a positioning member 130 having a protuberance 128 extending from a bottom
15 wall 129, is axially aligned with and secured to the second member 92 when the protuberance
128 is snugly inserted into an axially aligned recess 126 in a top wall 102 of the second member
92. A hammer is then struck upon the top wall 134 of the positioning member 130 until the first
20 projections 84 of the first fastener engagement member 82 and the second projections 94 of the
second fastener engagement member 92 sufficiently penetrate respective peripheral and central
portions 88 and 98 of the fastener head 114 to facilitate the removal of the fastener 90 from a
25 workpiece. The positioning member 130 is removed from the second fastener engagement
member 92 and a hand tool having a substantially similar protuberance extending therefrom is
30 snugly inserted into the recess 126 in the second member 92. The user then rotates the hand tool
such that rotary motion is imparted upon the second member 92 which in turn imparts rotary
35 motion upon the first member 82 thereby causing the first and second projections 84 and 94 to
impart rotary motion upon the fastener head 114 to extract the fastener 90 from a workpiece.

40 Although the above description details the removal of a fastener 90 from a workpiece, the
alternative fastener impact driver device 80 can also be used to tighten or insert fasteners having
varying head configurations into a workpiece. Further, a third fastener engagement member

could be added by reducing the dimensions of the first and second engagement members thus promoting smaller fastener engagement surfaces to facilitate more engagement between predetermined portions of the fastener head and corresponding projections of the three engagement members.

Thus, the foregoing description is for purposes of illustration only and is not intended to limit the scope of protection accorded this invention. The scope of protection is to be measured by the following claims, which should be interpreted as broadly as the inventive contribution permits.

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CLAIMS.

1 1. A fastener impact driver comprising:

2 a fastener engagement member having a plurality of projections disposed about a lower portion
3 that engages a peripheral portion of a fastener; and

4 a positioning member having an upper portion that ultimately receives a force thereupon,
5 said positioning member having a lower portion that engages a cooperating upper portion of said
6 fastener engagement member whereby a force imparted upon said upper portion of said
7 positioning member ultimately forces said projections of said fastener engagement member into
8 the fastener whereupon said positioning member is removed from said fastener engagement
9 member and a hand tool is removably secured to said fastener engagement member to impart
10 rotary force to said fastener engagement member thereby removing the fastener from or inserting
11 the fastener into a workpiece.

1 2. The device of claim 1 wherein said upper portion of said fastener engagement
2 member includes means for removably receiving said positioning member.

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1 3. The device of claim 2 wherein said removable receiving means includes an axially
2 disposed recess having a configuration that promotes the transfer of rotary force from the hand
3 tool to said fastener engagement member.

1 4. The device of claim 3 wherein said positioning member includes an axially
2 disposed protuberance configured to cooperatively engage said recess in said upper portion of
3 said fastener engagement member whereby the axial orientation of said positioning member
4 relative to said fastener engagement member is maintained irrespective of the quantity of force
5 ultimately imparted upon said upper portion of said positioning member.

1 5. The device of claim 1 wherein said projections are configured to rotationally
2 penetrate corresponding portions of the fastener whereby said fastener engagement member
3 extracts the fastener when sufficient rotary force is imparted upon said fastener engagement
4 member.

1 6. The device of claim 1 wherein said projections are arcuately configured.

1 7. A device for imparting rotary motion upon a fastener comprising:
2 a first fastener engagement member having an axially disposed aperture, a plurality of
3 first projections disposed about a lower portion, and an upper portion that ultimately receives a
4 force thereupon that forces said first projections into a corresponding peripheral portion of the
5 fastener; and
6 a second fastener engagement member having a plurality of second projections disposed
7 about a bottom portion to engage a central portion of the fastener, a peripheral planar lower
8 portion that engages said upper planar portion of said first fastener engagement member, and an
9 upper planar portion that ultimately receives a force thereupon that forces said first and second
10 projections into corresponding peripheral and central portions of the fastener, said bottom
11 portion of said second fastener engagement member extending axially through an aperture in said
12 first fastener engagement member to ultimately engage the central portion of the fastener.

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1 8. The device of claim 7 wherein said upper planar portion of said second fastener
2 engagement member includes means for removably receiving a positioning member thereupon.

1 9. The device of claim 8 wherein said removable receiving means includes an axially
2 disposed recess.

1 10. The device of claim 8 wherein said positioning member includes an axially
2 disposed protuberance configured to cooperate with said recess in said upper planar portion of
3 said second fastener member whereby the axial orientation of said positioning member relative to
4 said second fastener engagement member is maintained irrespective of the quantity of force
5 ultimately imparted upon said upper portion of said positioning member.

1 11. The device of claim 7 wherein said first projections are configured to rotationally
2 penetrate corresponding portions of the fastener whereby said first fastener engagement member
3 imparts rotational force upon the peripheral portion of the fastener.

1 12. The device of claim 11 whereby said first projections are arcuately configured.

1 13. The device of claim 7 wherein said second projections are configured to axially
2 penetrate corresponding portions of the fastener whereby said second fastener engagement
3 member imparts rotational force upon the central portion of the fastener.

1 14. The device of claim 13 wherein said second projections are pyramid configured.

1 15. A method for engaging multiple portions of a fastener, said method comprising
2 the steps of:

3 providing a first fastener engagement member having an axially disposed
4 aperture, a plurality of first projections disposed about a lower portion, said first projections
5 engaging a peripheral portion of the fastener, and an upper portion that ultimately receives a

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6 force thereupon that forces said first projections into a corresponding peripheral portion of the
7 fastener, and providing a second fastener engagement member having a plurality of second
8 projections disposed about a bottom central portion to engage a central of the fastener, a
9 peripheral planar lower portion that engages said upper planar portion of said first fastener
10 engagement member, and an upper planar portion that ultimately receives a force thereupon that
11 forces said first and second projections into corresponding peripheral and central portions of the
12 fastener, said bottom central portion of said second fastener engagement member extending
13 axially through said aperture of said first fastener engagement member to ultimately engage the
14 central portion of the fastener.

16. The method of claim 15 wherein the step of providing a second fastener
engagement member having an upper planar portion includes the step of providing means for
removably receiving a positioning member thereupon.

17. The method of claim 16 wherein the step of providing removable receiving means
includes the step of providing an axially disposed recess:

18. The method of claim 17 wherein the step of providing means for removably
receiving a positioning member includes the step of providing said positioning member with an
axially disposed protuberance configured to cooperate with said recess.

19. The method of claim 15 wherein the step of providing first projections includes
the step of configuring said first projections to rotationally penetrate corresponding portions of
the fastener whereby said first fastener engagement member imparts rotational force upon the
peripheral portion of the fastener.

20. The method of claim 19 wherein the step of configuring said first projections
includes the step of arcuately configuring said first projections.

21. The method of claim 15 wherein the step of providing second projections includes

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the step of configuring said second projections to axially penetrate corresponding portions of the fastener whereby said second fastener engagement member imparts rotational force upon the central portion of the fastener.

22. The method of claim 21 wherein the step of configuring said second projections includes the step of configuring said second projections to include a relatively large base and a relatively pointed top.

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ABSTRACT

A fastener impact driver device 10 includes a fastener engagement member 12 having a plurality of projections 14 disposed about a lower portion 16 that engages a corresponding peripheral portion 18 of a fastener 20. The device 10 further includes a positioning member 22 having an upper portion 24 that ultimately receives a force thereupon, and a lower portion 26 that engages a cooperating upper portion 28 of the fastener engagement member 12 whereby a force such a hammer strike is imparted upon the upper portion 24 of the positioning member 22 to drive the projections 14 of the fastener engagement member 12 into the head 44 of the fastener 20 without damage of the fastener engagement member 12, whereupon the positioning member 22 is removed from the fastener engagement member 12 and a hand tool is removably secured to the fastener engagement member 12 to impart rotary motion to the member 12 and the fastener 20 thereby removing the fastener 20 from or urging the fastener 20 into a workpiece.

**DECLARATION FOR PATENT APPLICATION
WITH POWER OF ATTORNEY**

As below named joint inventors, we hereby declare that:

Our residences, post office addresses and citizenships are as stated below next to our names.

We believe we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled "IMPACT DRIVER AND FASTENER REMOVAL DEVICE" (Attorney Ref. No. 0052/01433), the specification of which

(check one) X is attached hereto.

 was filed on _____
 as serial No. _____
 as was amended on _____ (if applicable)

We hereby state that we have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. We acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, code of Federal Regulations, §1.56 (a).

We hereby claim foreign priority benefits under Title 35, United States Code, §119, of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign applications for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)			Priority Claimed	
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
_____	_____	_____	_____	_____
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
_____	_____	_____	_____	_____
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
_____	_____	_____	_____	_____

We hereby claim the benefit under Title 35, United States Code, §120, of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, we acknowledge the duty to disclose material information as defined in title 37, Code of Federal Regulations, §1.56 (a), which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(App. Ser. No.)	(Filing Date)	Status: (patented, pending, abandoned)
_____	_____	_____
(App. Ser. No.)	(Filing Date)	Status: (patented, pending, abandoned)
_____	_____	_____

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(App. Ser. No.) (Filing Date) Status: (patented, pending, abandoned)

We hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application of any patent issuing thereon.

And we hereby appoint Donald G. Flaynik (Reg. No. 30,836) and Michael J. Cherskov (Reg. No. 33,664), both members of the Bar of the State of Illinois, using the address **CHERSKOV & FLAYNIK, The Civic Opera Building, 20 North Wacker Drive, Chicago, IL 60606** (Telephone 312-621-1330), my attorneys with full power of substitution and revocation, to prosecute this application, and to transact all business in the Patent and Trademark Office connected therewith. It is requested that all correspondence should be directed to **CHERSKOV & FLAYNIK, The Civic Opera Building, 20 North Wacker Drive, Suite 1447, Chicago, IL 60606**.

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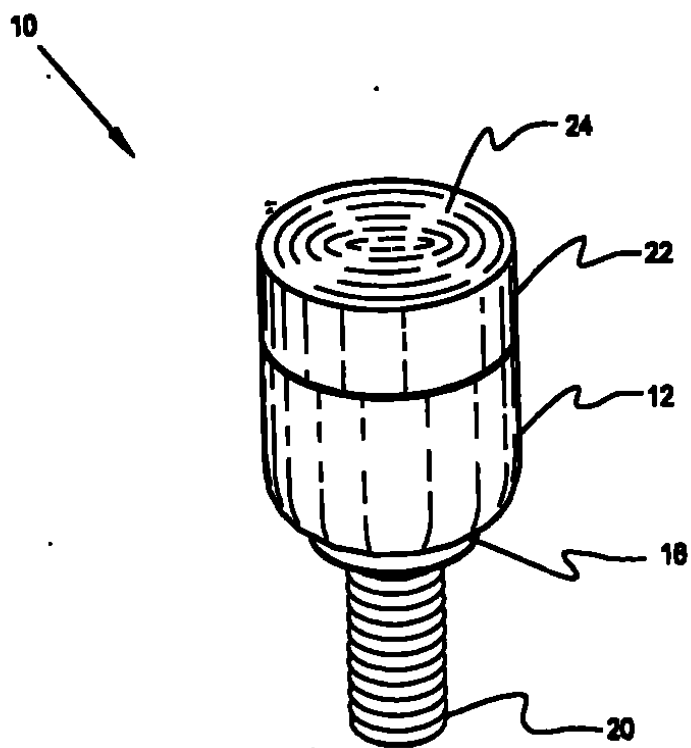


Fig. 1

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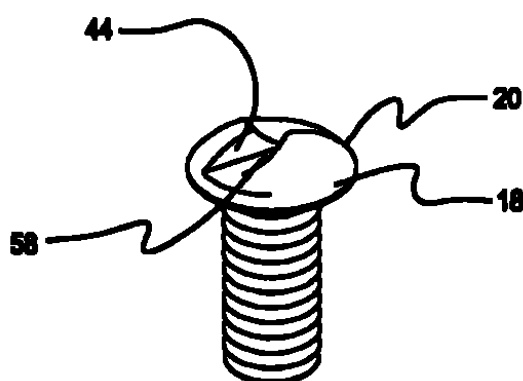
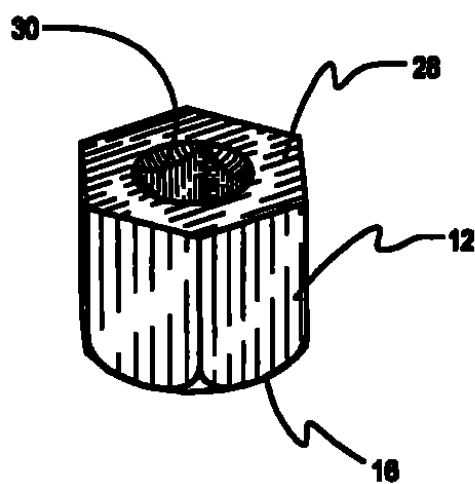
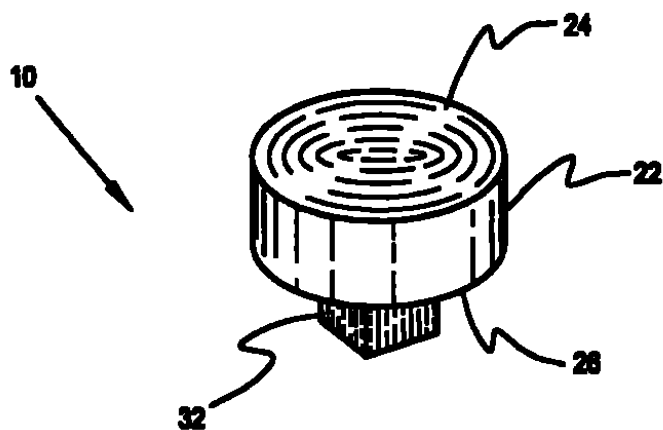


Fig. 2

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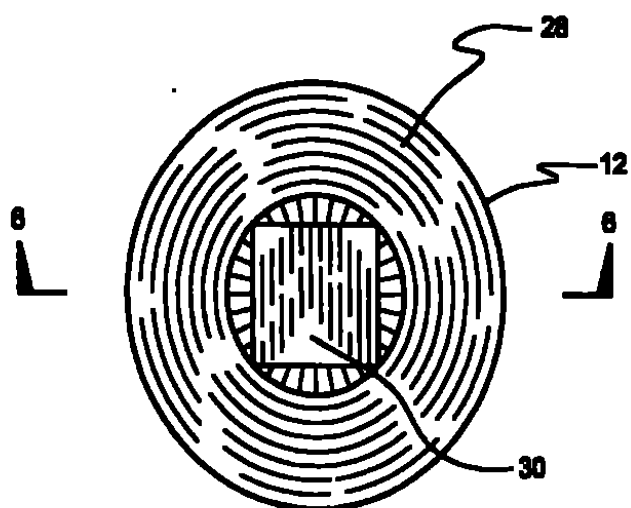


Fig. 3

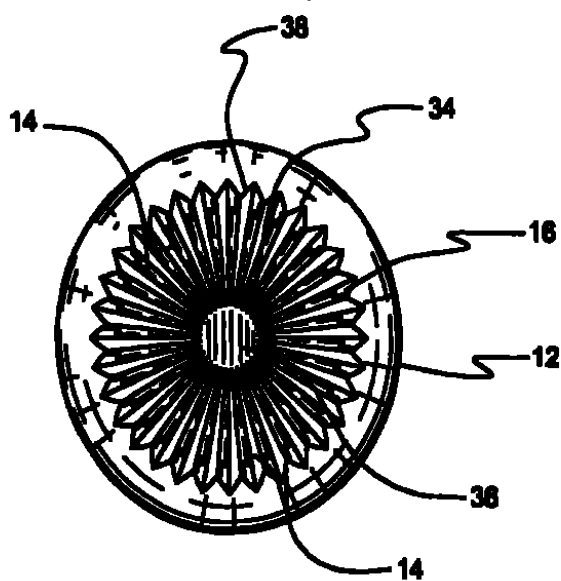


Fig. 4

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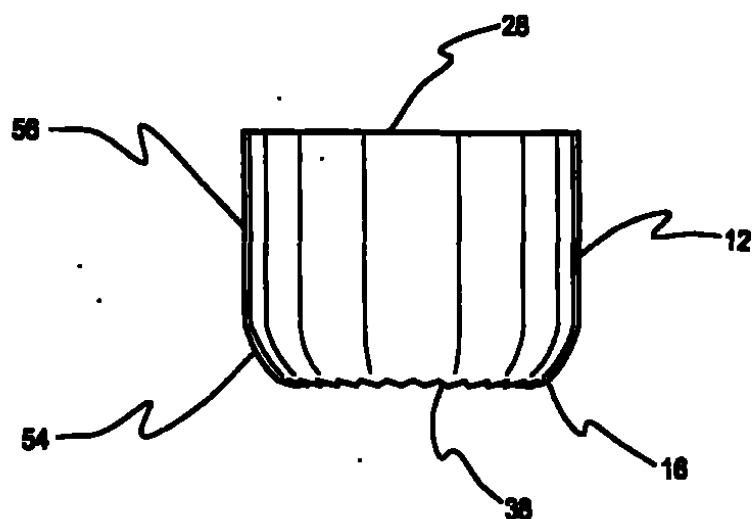


Fig. 5

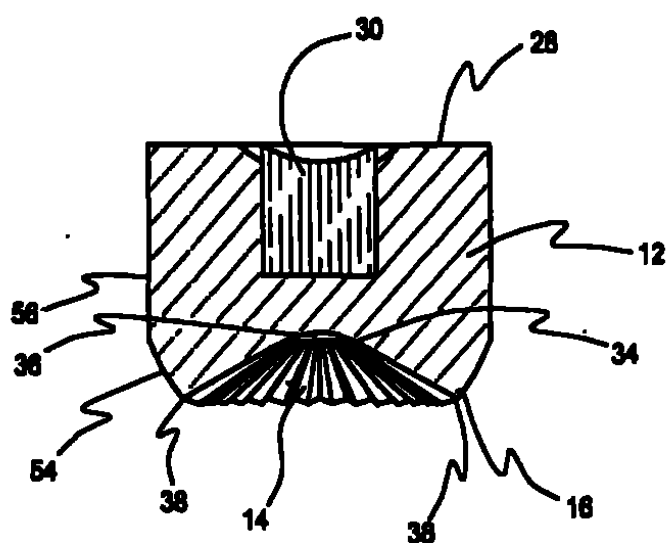


Fig. 6

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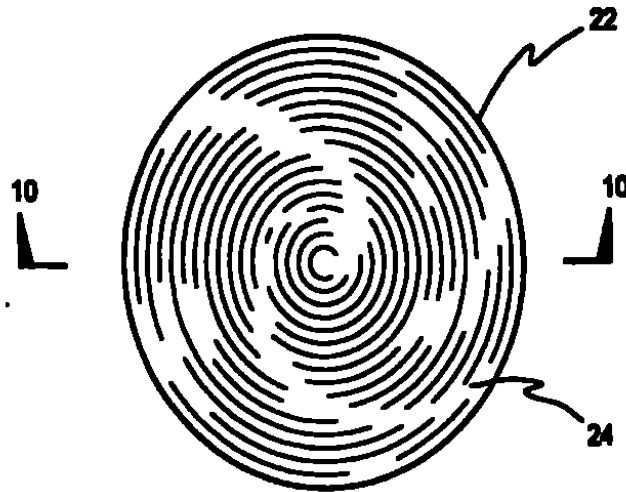


Fig. 7

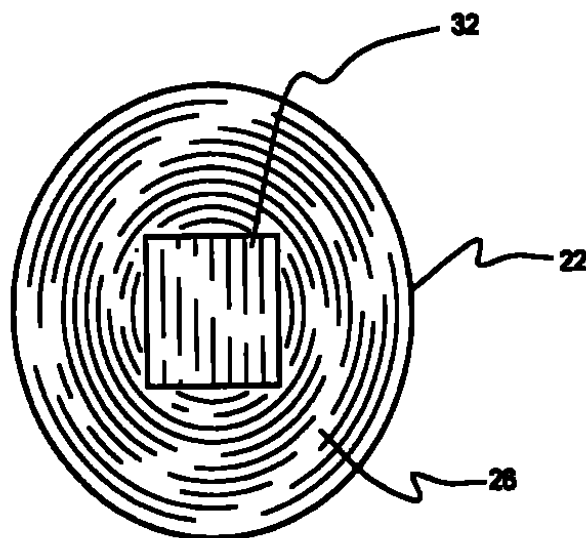


Fig. 8

140 150

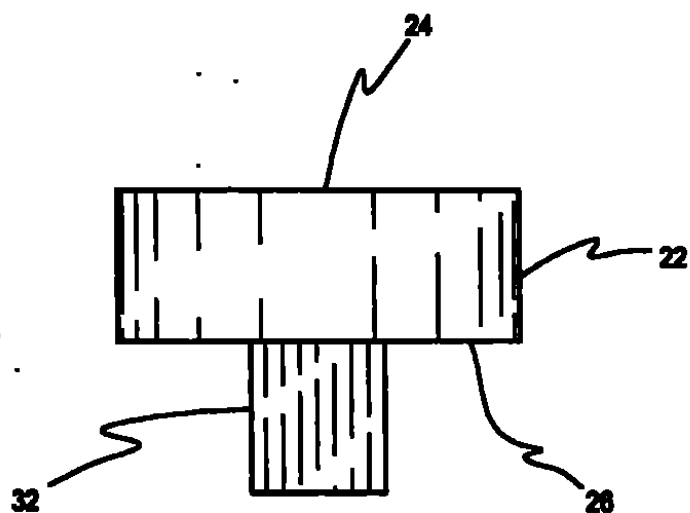


Fig. 9

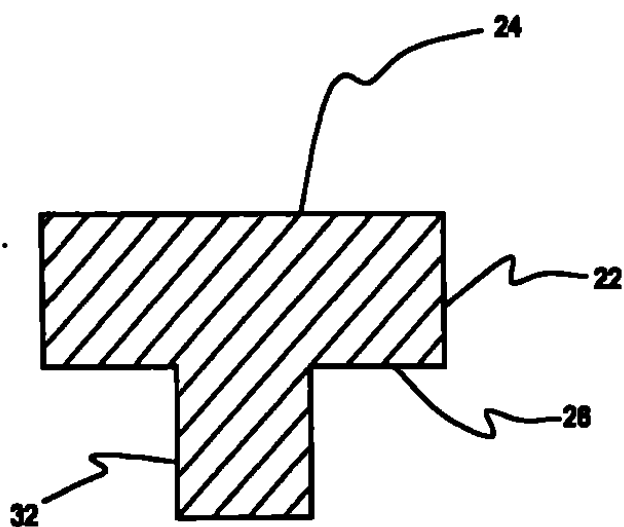


Fig. 10

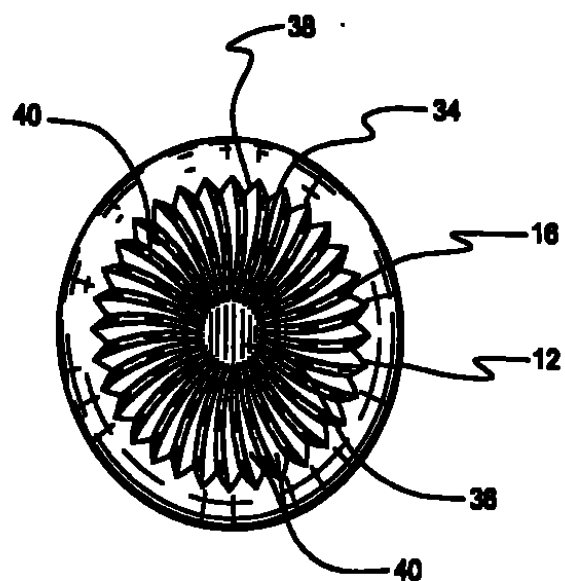


Fig. 11

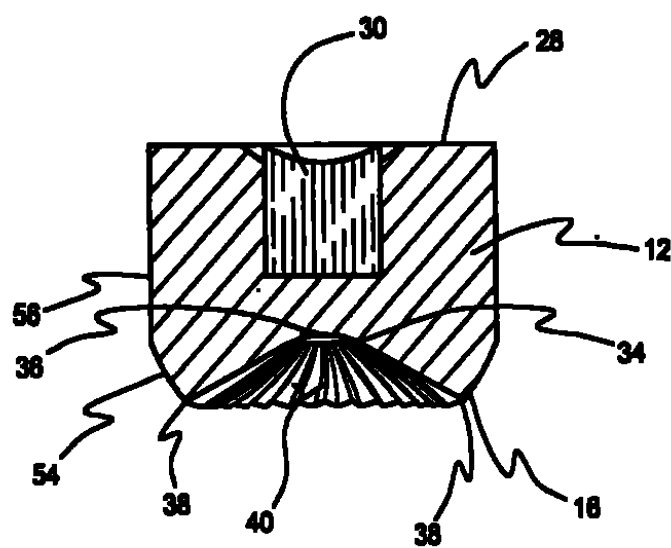


Fig. 12

147
85

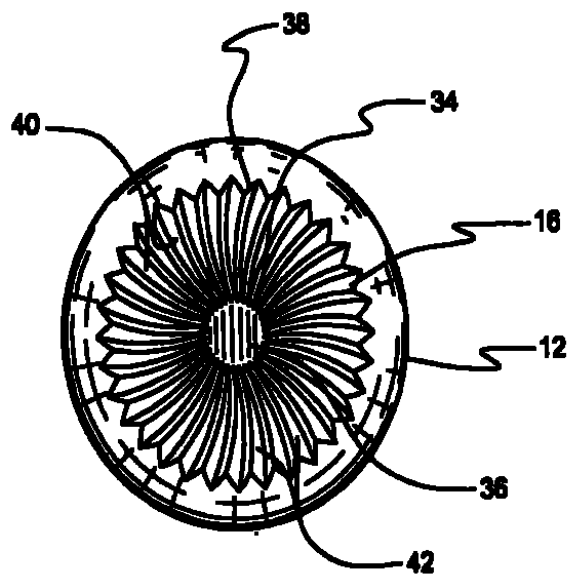


Fig. 13

141
65

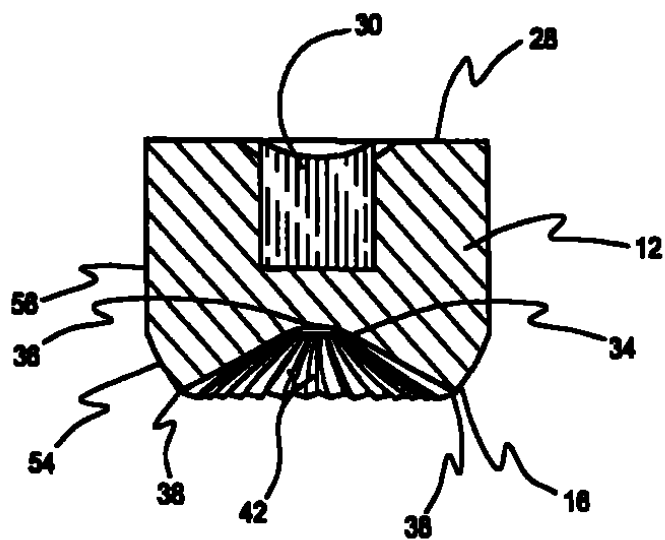


Fig. 14

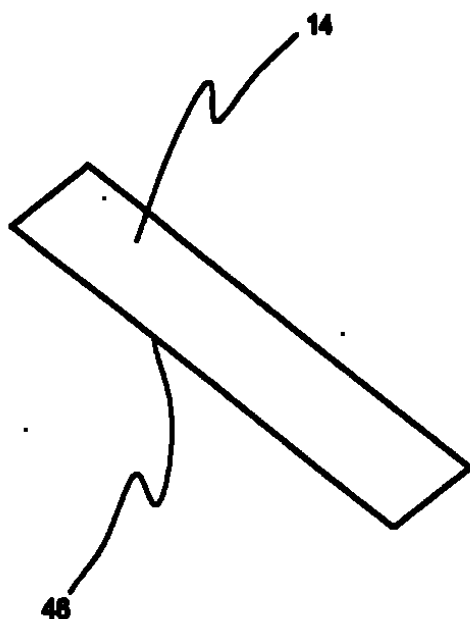


Fig. 15

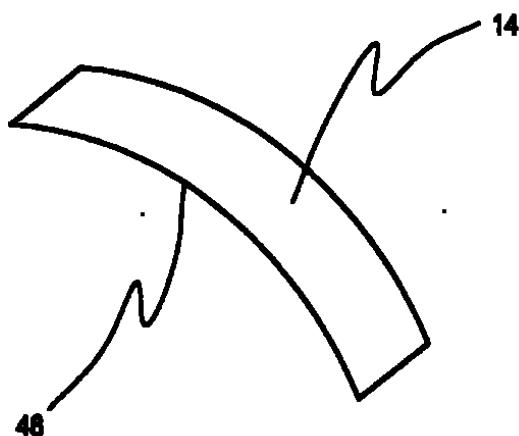


Fig. 16

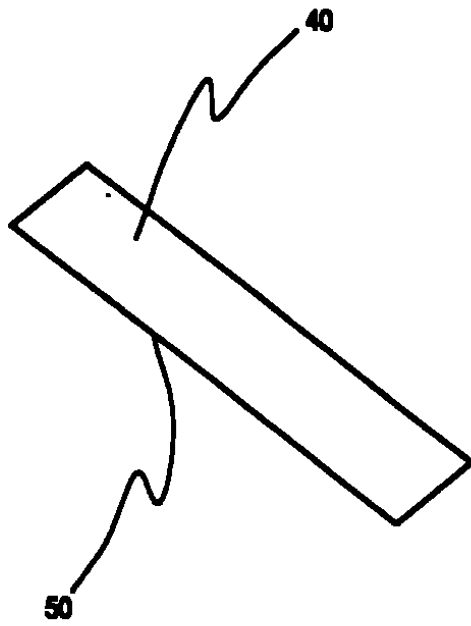


Fig. 17

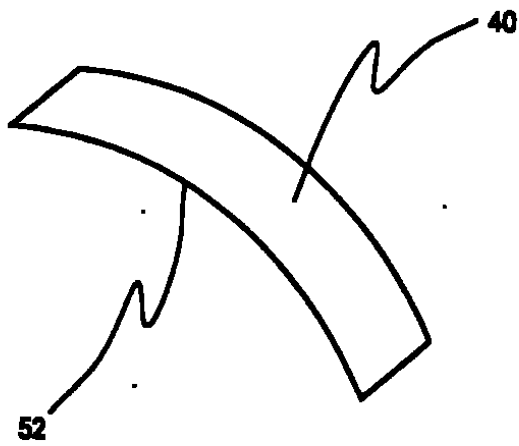


Fig. 18

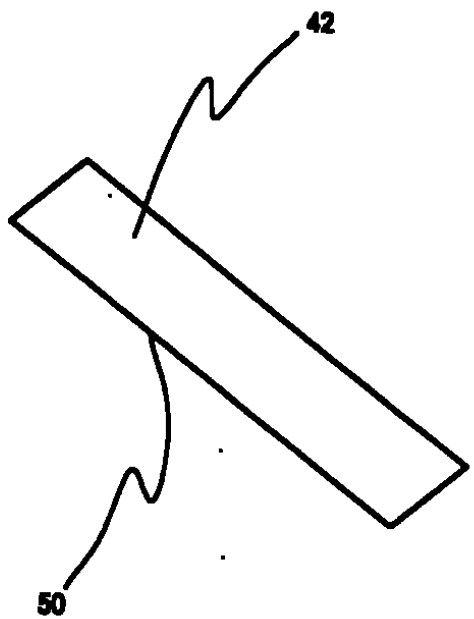


Fig. 19

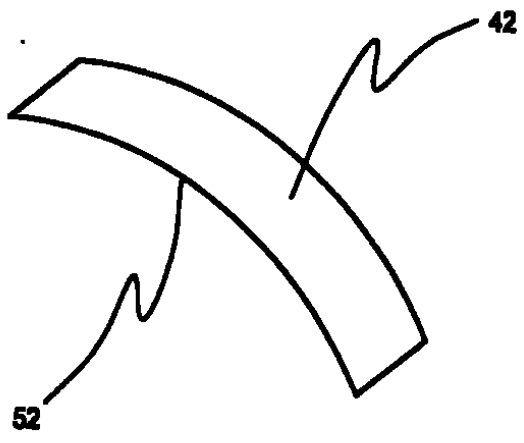


Fig. 20

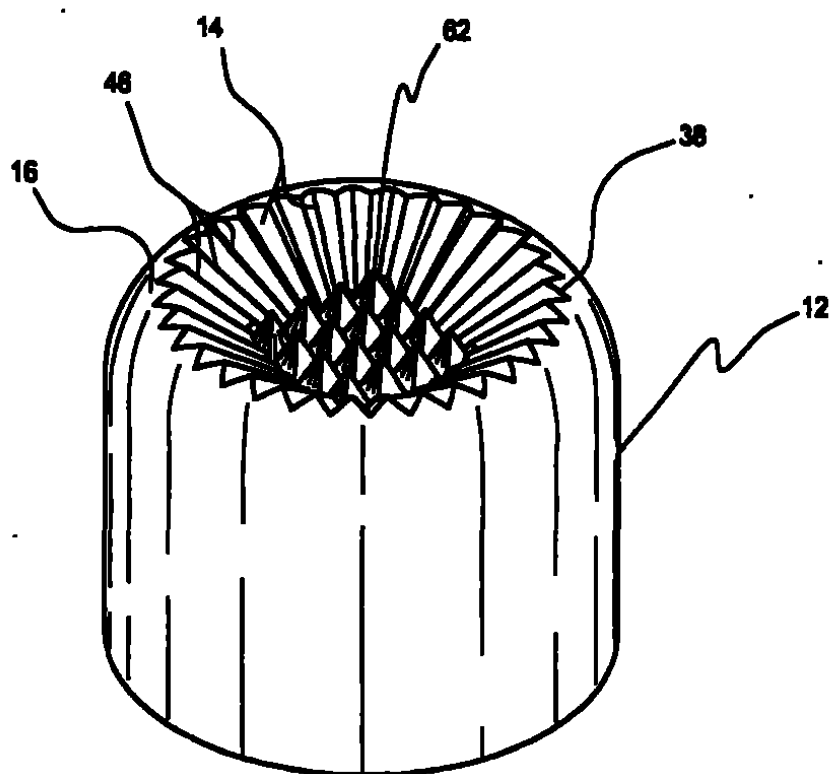


Fig. 21

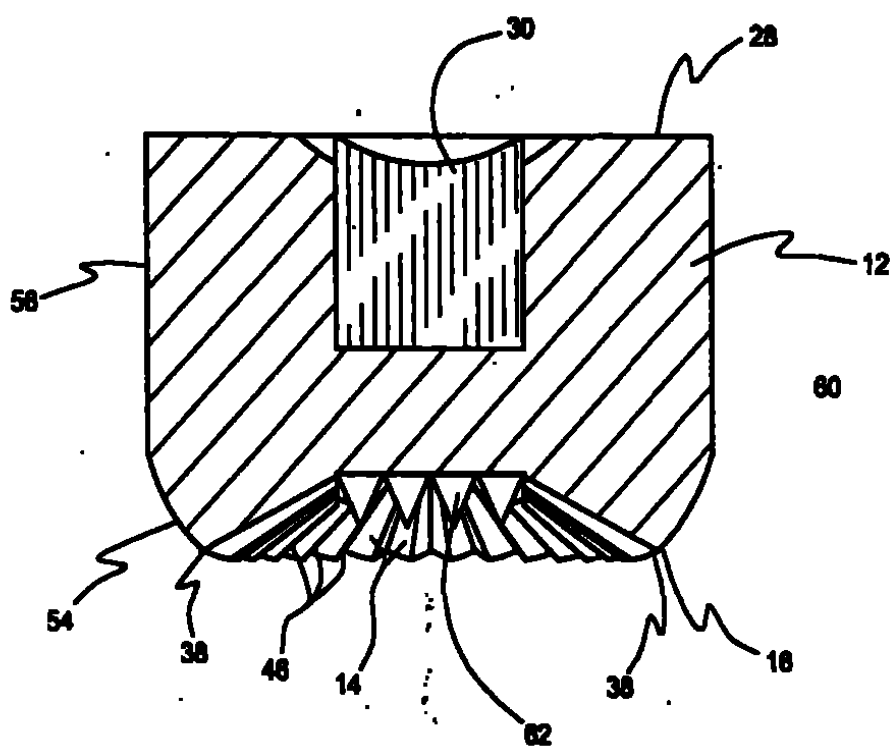


Fig. 22

150
69

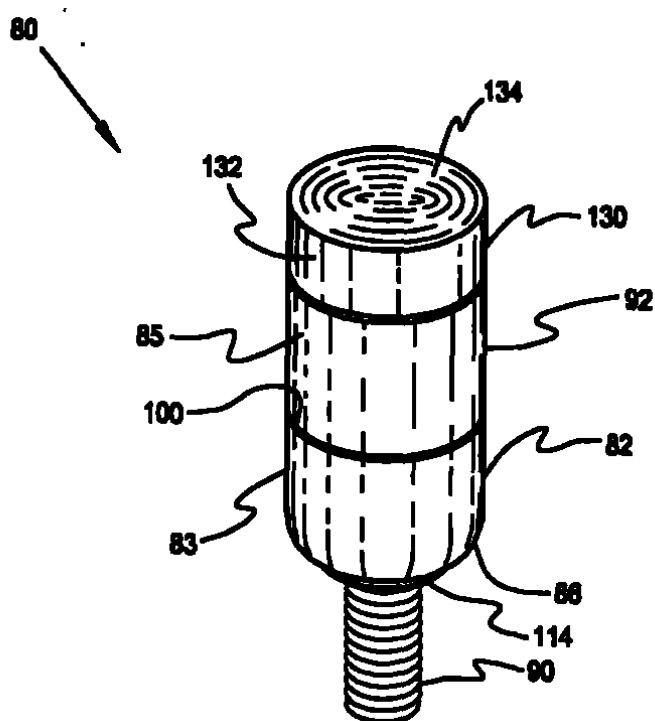


Fig. 23

151
68

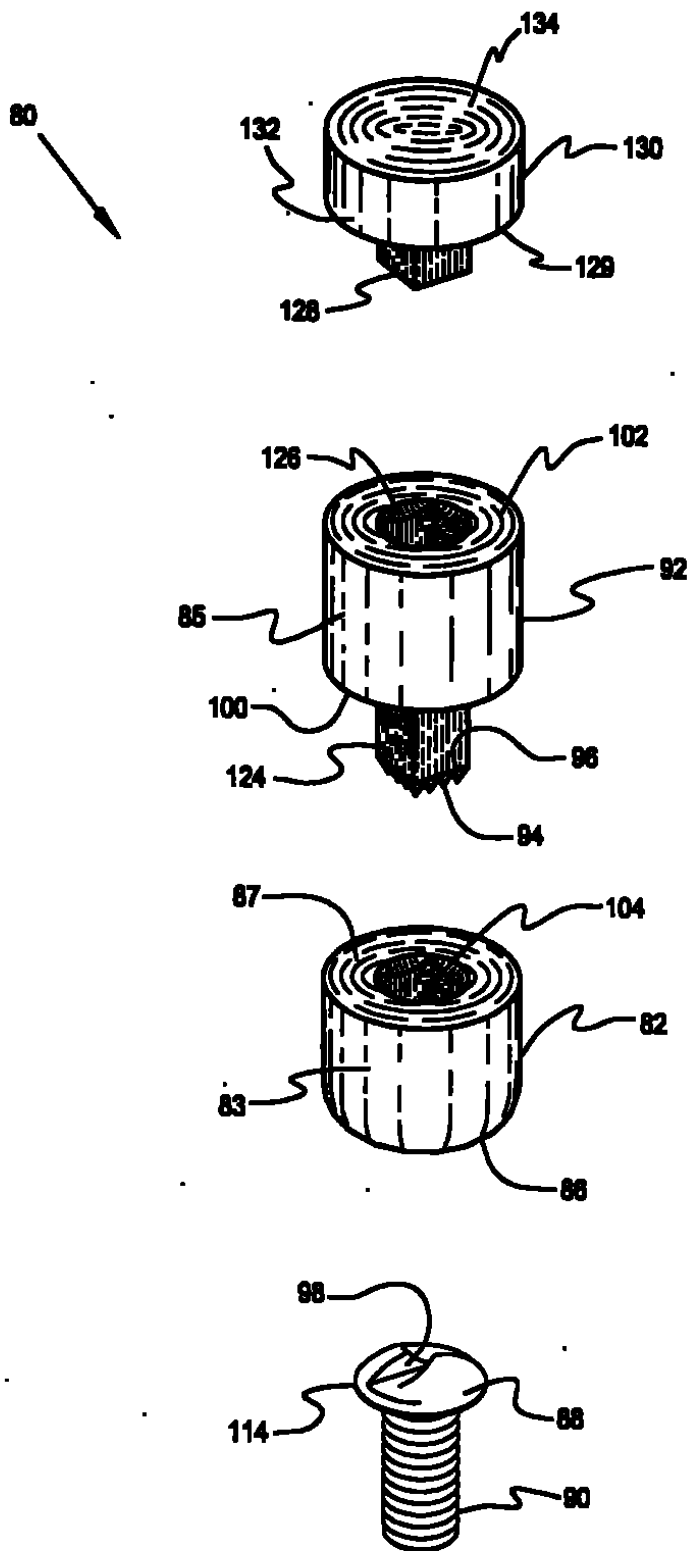


Fig. 24

152
67

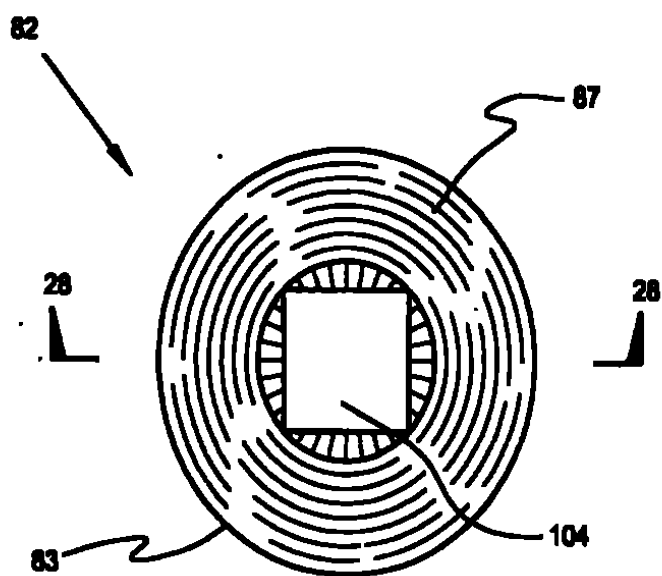


Fig. 25

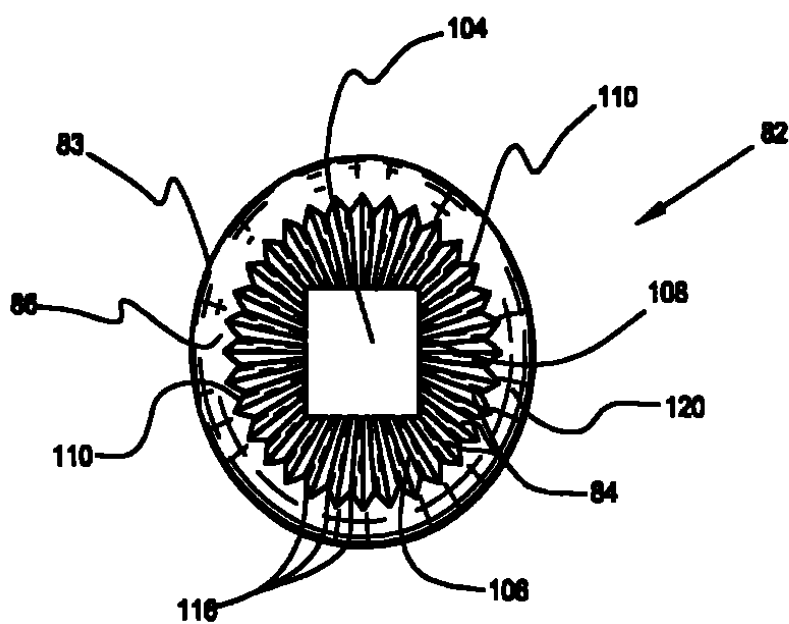


Fig. 26

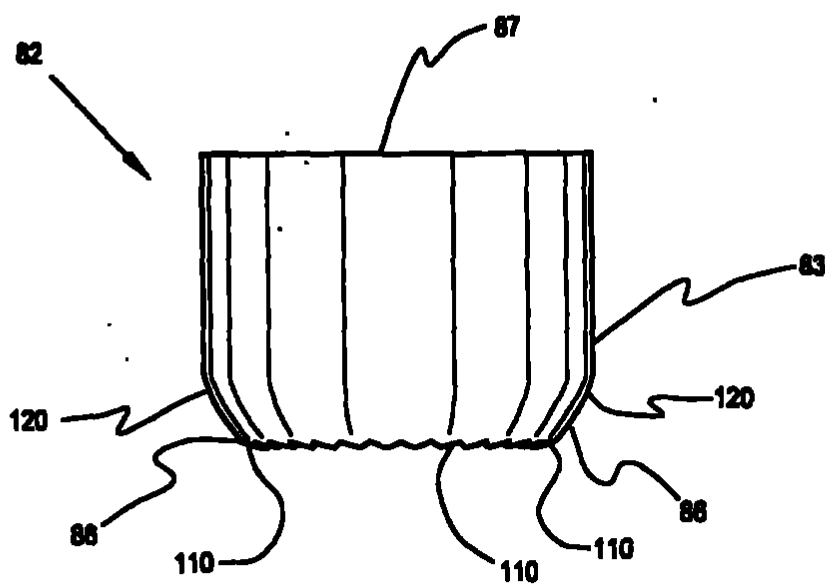


Fig. 27

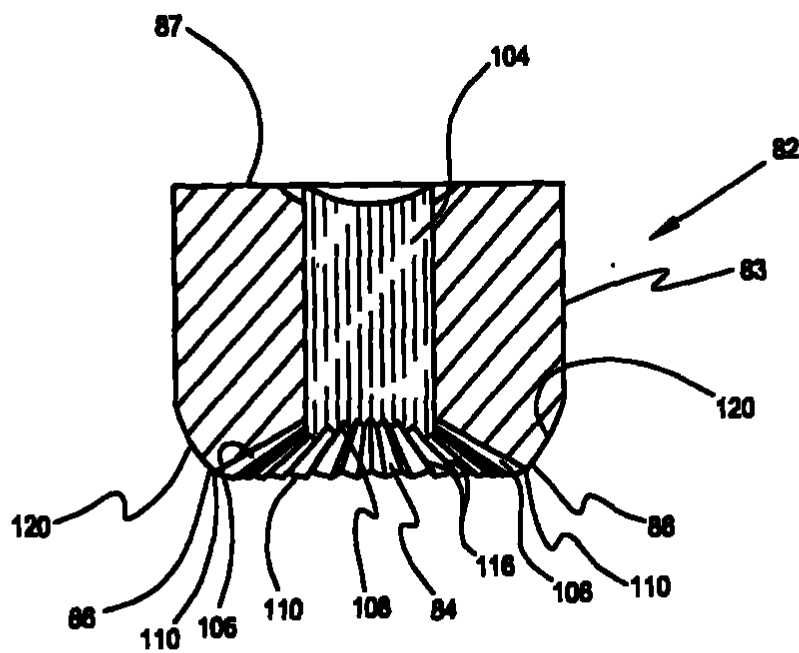


Fig. 28

152
64

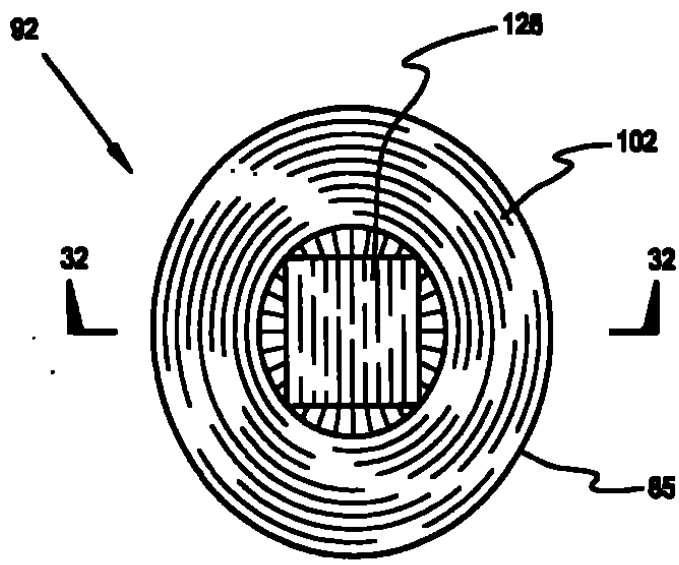


Fig. 29

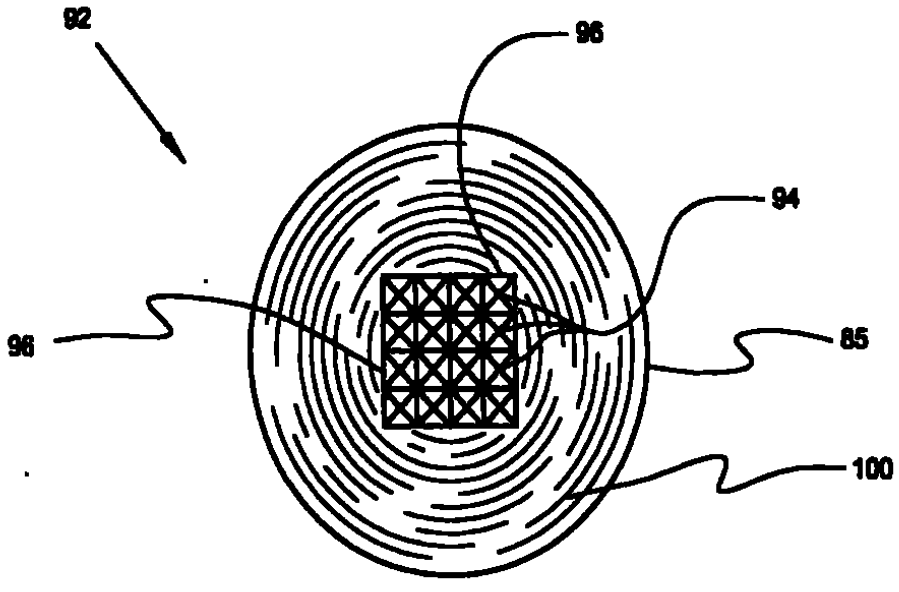


Fig. 30

155
7/1

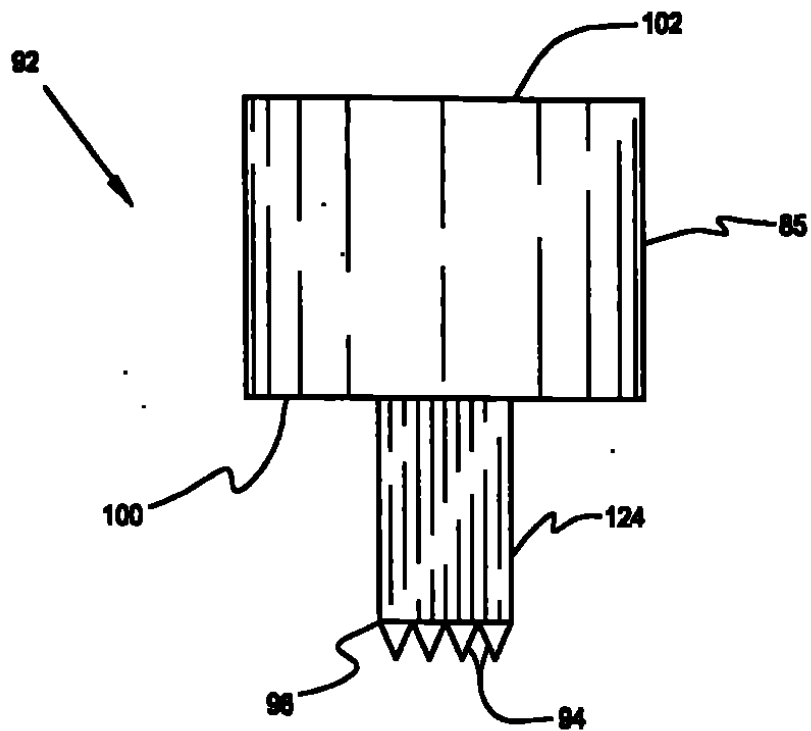


Fig. 31

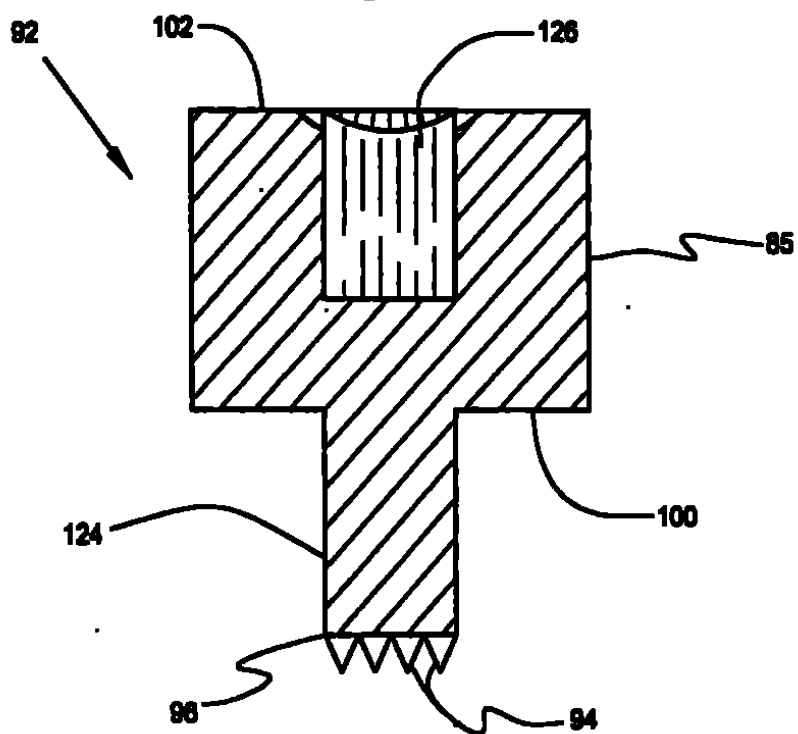


Fig. 32

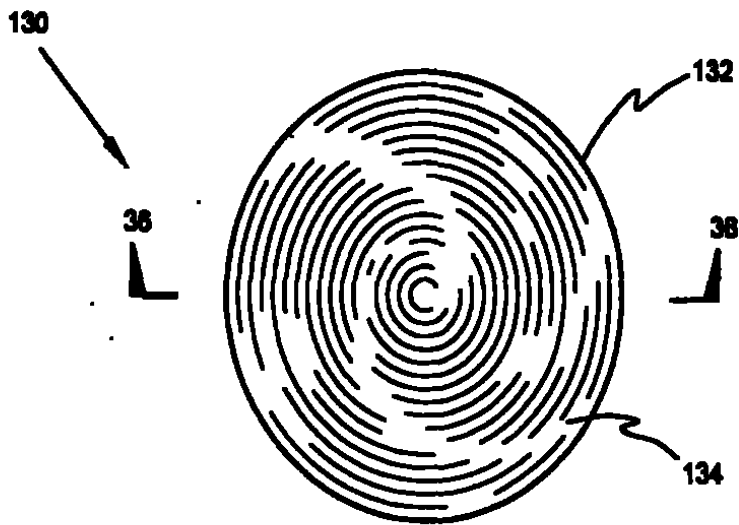


Fig. 33

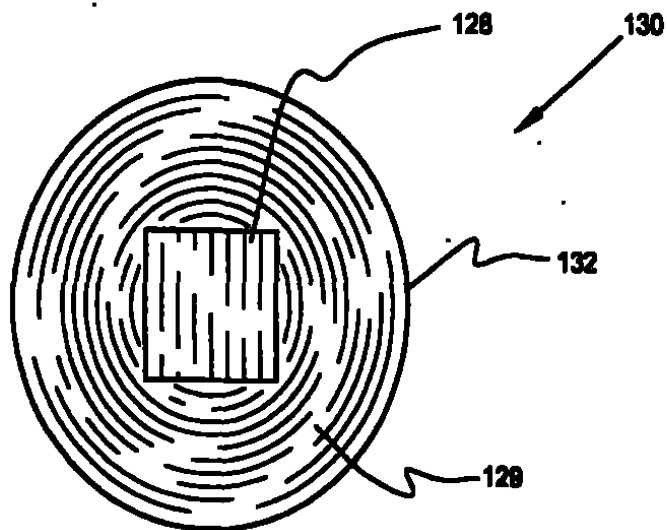


Fig. 34

157
72

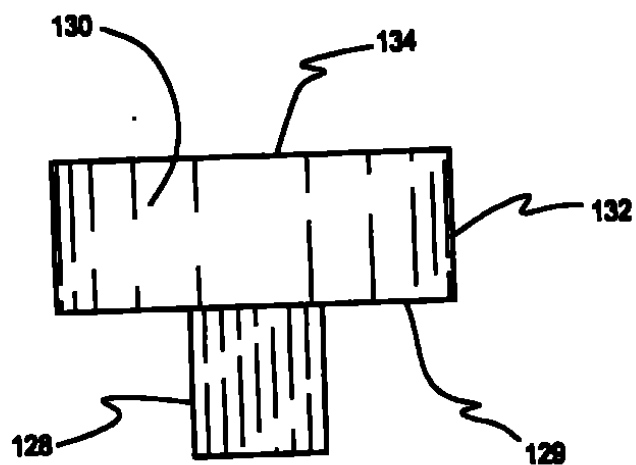


Fig. 35

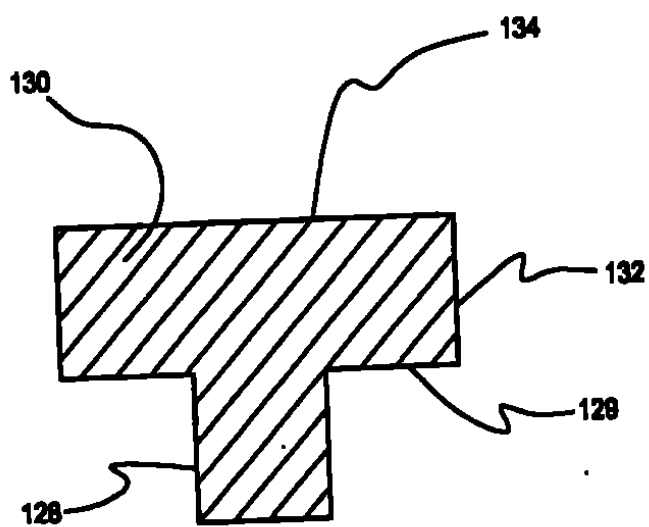


Fig. 36

150

Fig

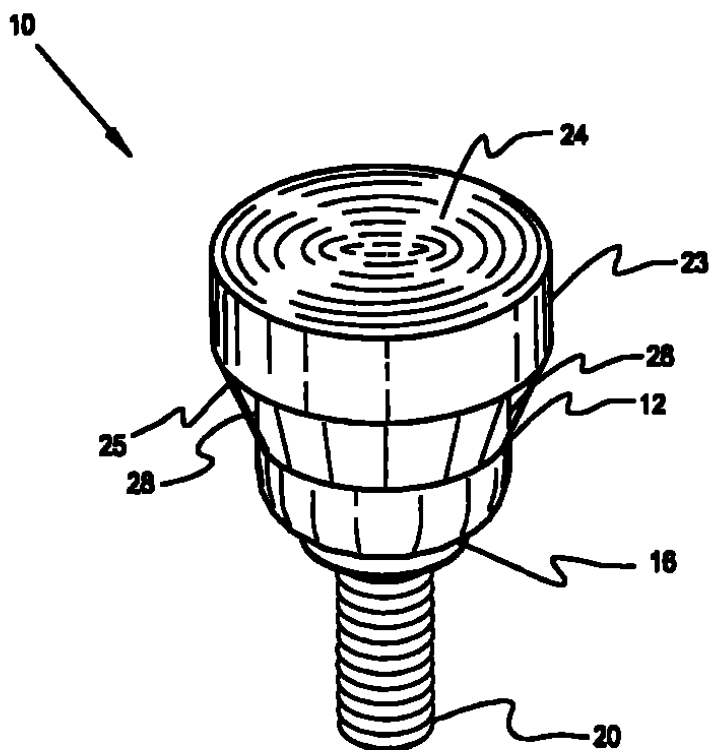


Fig. 37

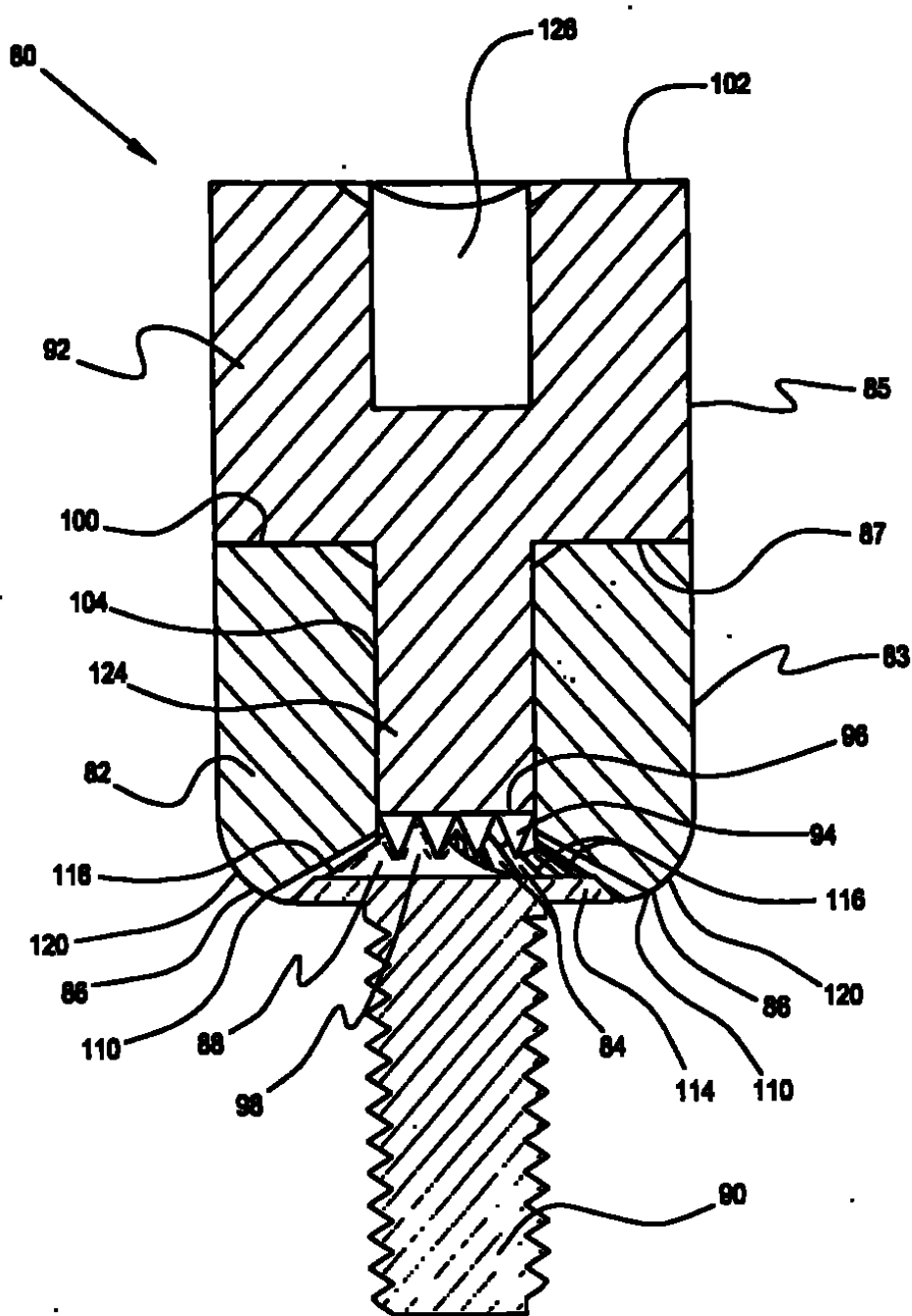


Fig. 38

2020
Bogotá D C

Doctor(a):
DILIA MARIA RODRIGUEZ D'ALEMAN.
Apoderado (a)

REFERENCIA:	Radicación N°	04-84186
	Trámite	002
	Evento	001
	Actuación	416
	Oficio N°	853
	Folios	001

Teniendo en cuenta que la solicitud de privilegio de patente que se tramita bajo el expediente indicado en la referencia, reúne los requisitos de forma establecidos en los artículos 26 y 27 de la Decisión 486, de la Comisión de la Comunidad Andina, y en las demás disposiciones vigentes sobre la materia, se envía el extracto de la solicitud a la oficina de comunicaciones para efecto de su publicación en la Gaceta de Propiedad Industrial, conforme lo establece el artículo 40 de la Decisión 486, a partir de 27 de febrero de 2006, por indicación del solicitante.

Cúmplase
Dado en Bogotá D C, **12. SET. 2005**


ALIX CARMENZA CÉSPEDES DE VERGEL
Jefe División de Nuevas Creaciones.

202051

2° EXAMEN DE FORMA, PATENTE DE INVENCION

Radicación N° **04-84186**

Folio 161

Concepto Técnico N° **698**

Clasificación Internacional de Patentes: **B25D 13/00**

Practicado el examen de acuerdo a lo establecido en el Art. 38 de la Decisión 486, se determinó que esta solicitud de **Patente**:

- SI ☒ NO ☐ Contiene un resumen de la invención (Art. 26-e)
- SI ☒ NO ☐ Contiene el título o nombre de la invención (Art. 27-d)
- SI ☒ NO ☐ Contiene la descripción de la invención (Art. 26-b)
- SI ☒ NO ☐ NO ES APLICABLE ☐ Contiene los dibujos necesarios para comprender la invención (Art. 26-d)
- SI ☒ NO ☐ Contiene una o más reivindicaciones (Art. 26-c)
- SI ☐ NO ☐ NO ES APLICABLE ☒ Han sido desarrollados los productos a partir de recursos genéticos o de sus productos derivados de los que cualquiera de los Países Miembros es país de origen (Art. 26-h)
- SI ☐ NO ☐ NO ES APLICABLE ☒ Los productos y o procedimientos han sido obtenidos o desarrollados a partir a partir de los conocimientos tradicionales de las comunidades indígenas, afro americanas, o locales de los Países Miembros, de acuerdo a lo establecido en la Decisión 391 y sus modificaciones y reglamentaciones vigentes (Art. 26-i)
- SI ☐ NO ☒ La invención se refiere a un producto relativo a un material biológico (Art. 26-j)
- SI ☒ NO ☐ NO ES APLICABLE ☐ La prioridad coincide con la materia reivindicada.
- SI ☒ NO ☐ **CUMPLE LOS REQUISITOS TÉCNICOS**

OBSERVACIONES Y OTROS: SI ☐ NO ☐ Ver hoja(s) anexa(s)

• .

EXAMINADOR TÉCNICO: 202051

Bogotá D C, septiembre 5 de 2005.