US 20030102346A1

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2003/0102346 A1

Chen (43) Pub. Date: Jun. 5, 2003

(54) PNEUMATIC TOOL SYSTEM OPERATION AND CARRIER BELT

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(21) Appl. No.: **10/000,371**

(22) Filed: **Dec. 4, 2001**

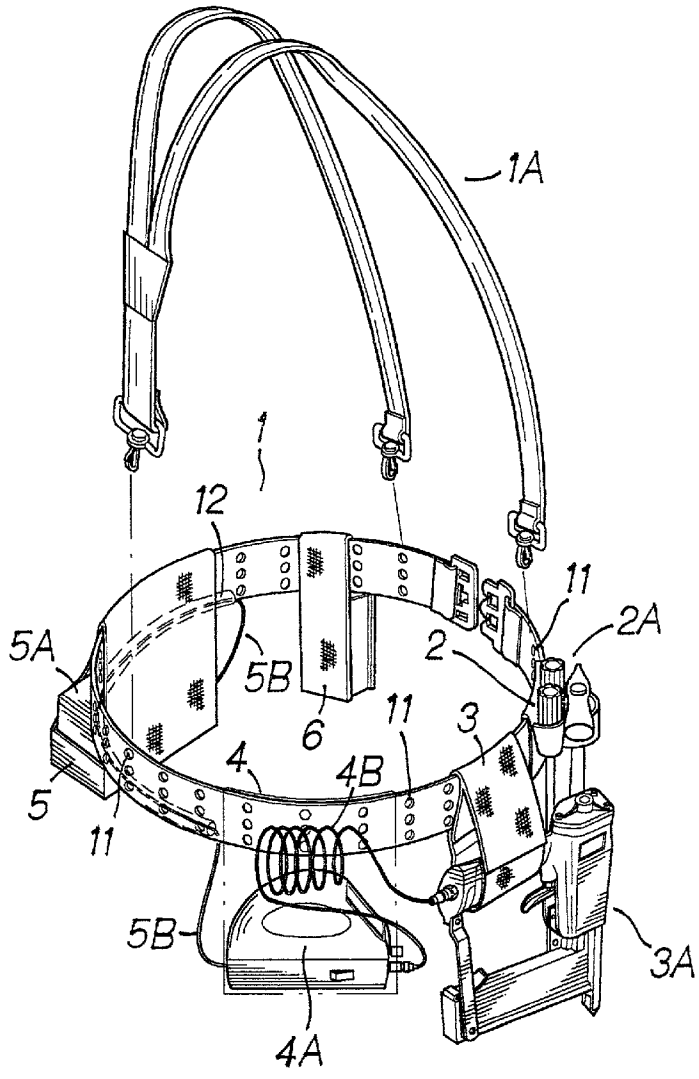
Publication Classification

(51) **Int. Cl.**[7] **A45C 1/04**; F41C 33/02; F42B 39/02; A45F 3/04

(52) **U.S. Cl.** **224/675**; 224/637; 224/260; 224/904

(57) **ABSTRACT**

A pneumatic tool system operation and carrier belt comprised of a band worn around the waist of the user and from which is suspended a plurality of cinctures that respectively hold a set of hand tools, a pneumatic tool, a mini compressor, a small battery, and goggles, wherein the pneumatic tool, the mini compressor, and the small battery are interconnected. As such, the user goes to the work site only wearing the carrier belt holding the entire pneumatic tool system and operates the pneumatic tools directly from the belt because the power supply and compressed air source are built in, which improves upon the conventional need to connect a confusing array of equipment cables and hoses. Furthermore, the present invention does not hinder work and prevents accidental injury and other hazardous situations, and thereby provides a carrier belt that facilitates construction and manual dexterity.



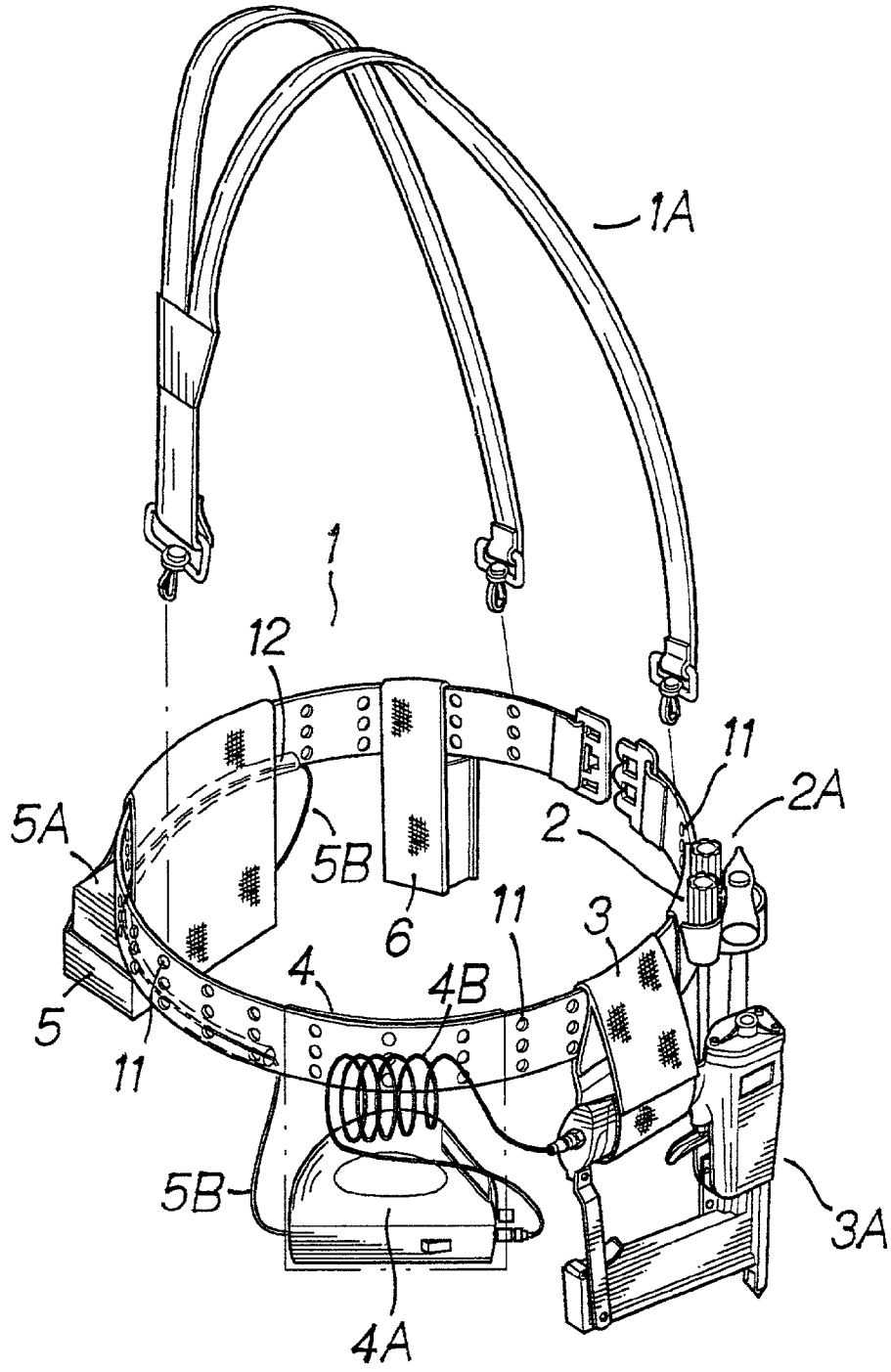


FIG. 1

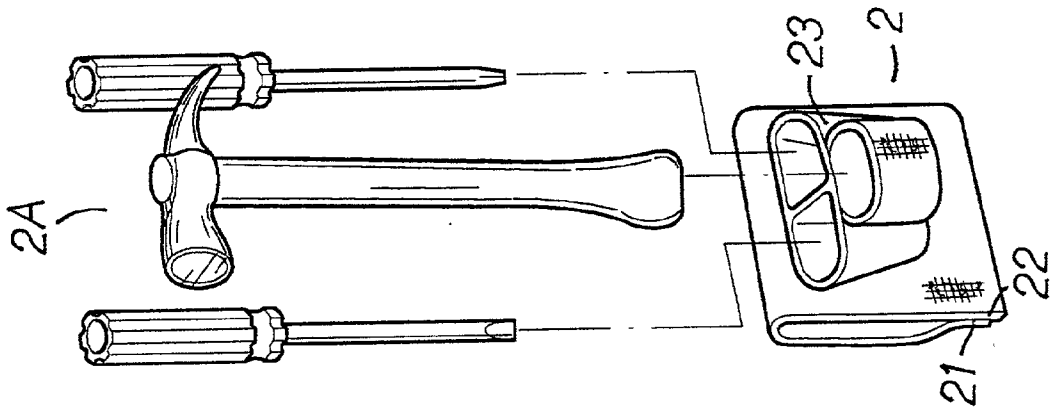


FIG. 2-A

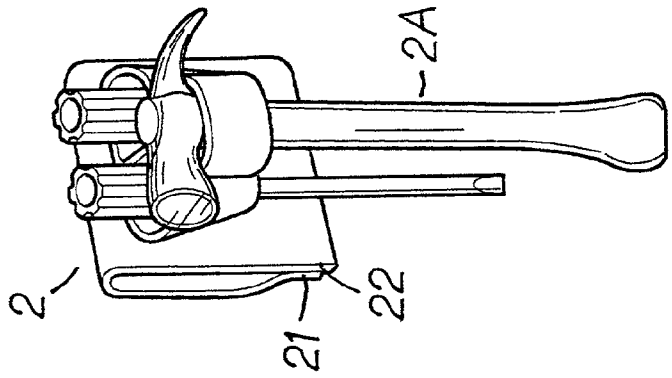


FIG. 2-B

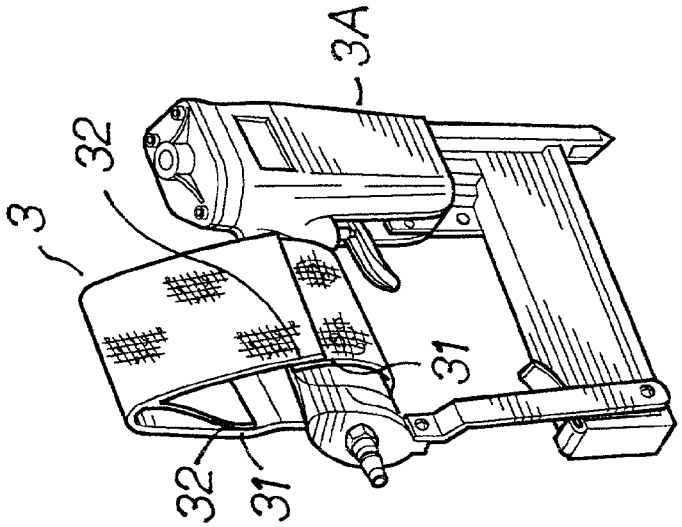


FIG. 3-B

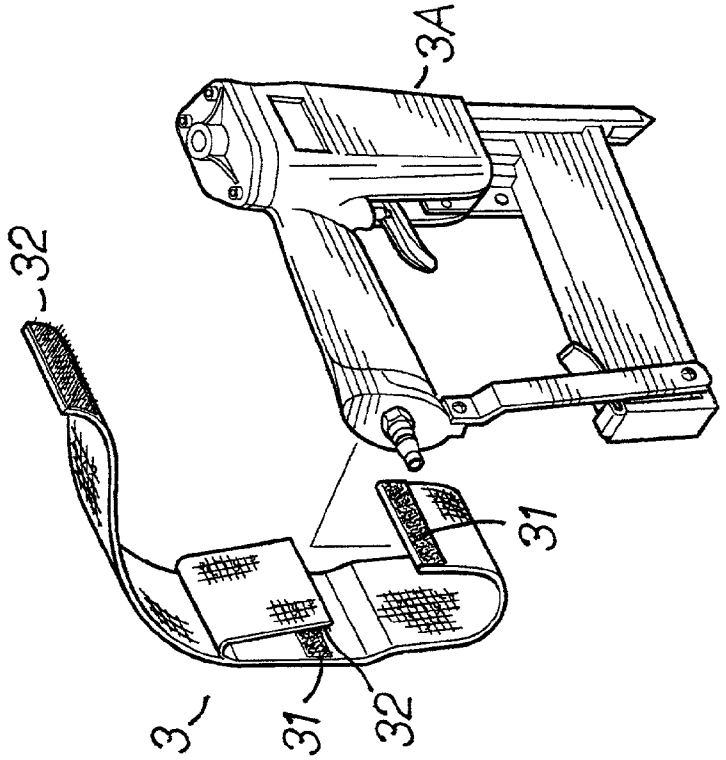


FIG. 3-A

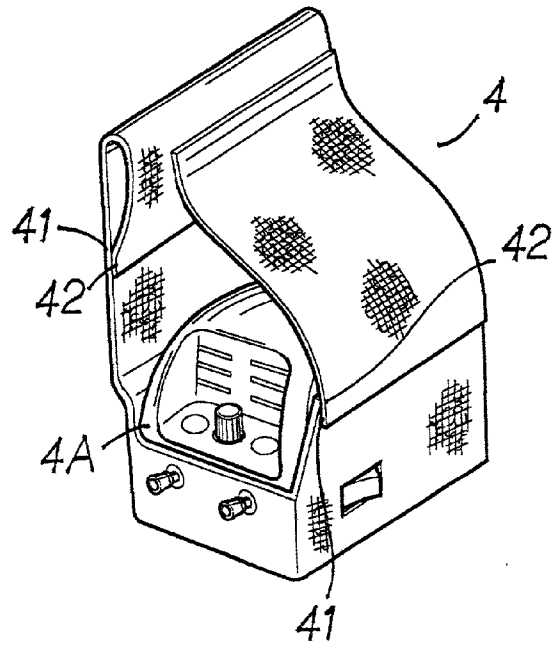


FIG. 4-B

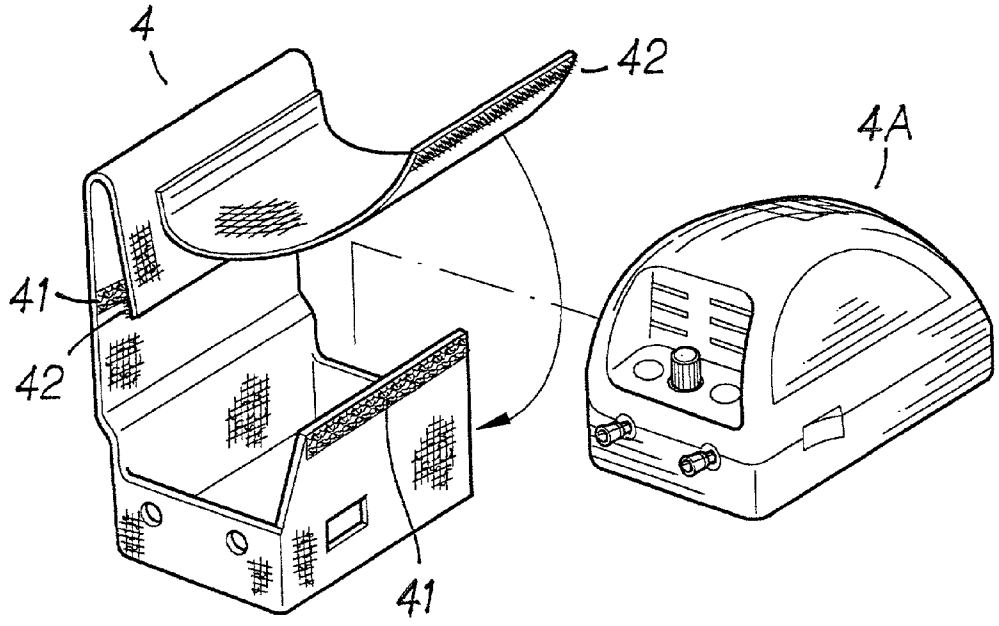


FIG. 4-A

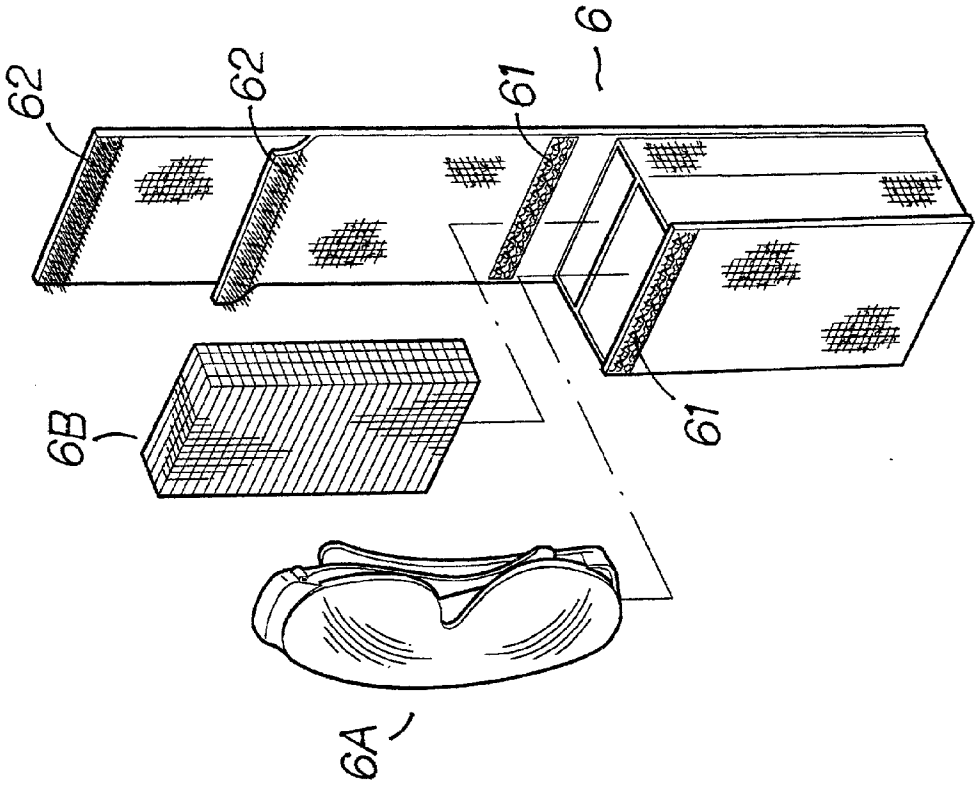


FIG. 5-A

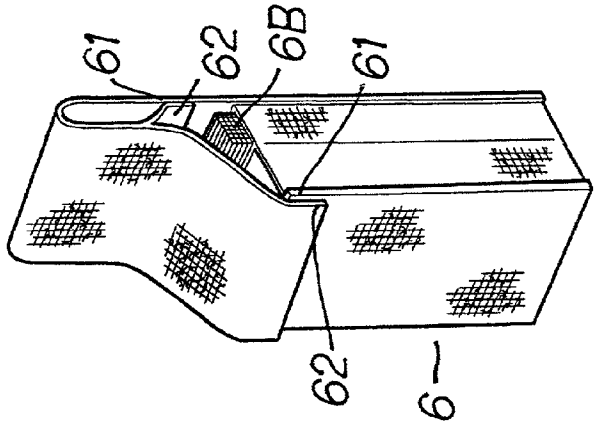


FIG. 5-B

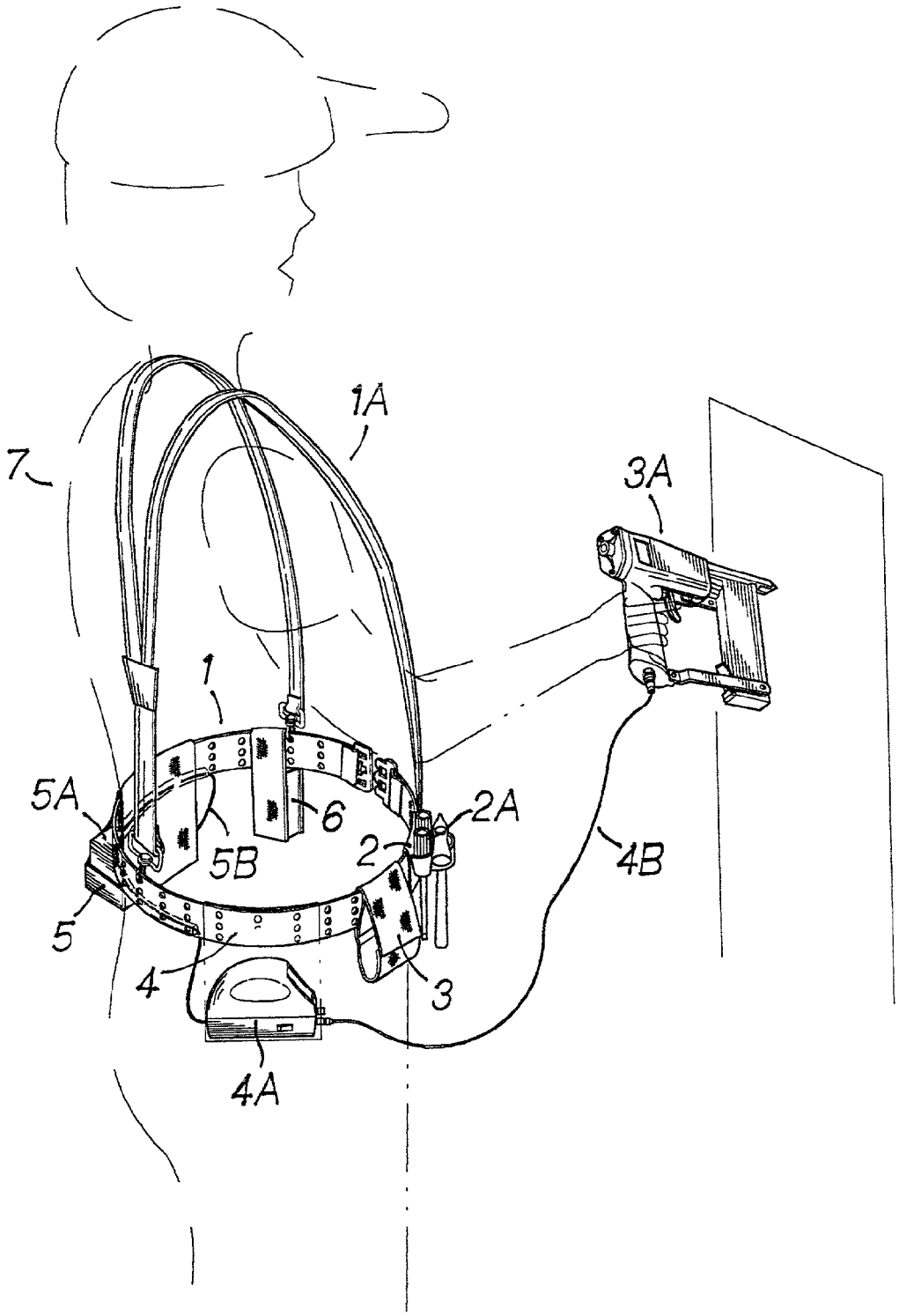


FIG. 6

PNEUMATIC TOOL SYSTEM OPERATION AND CARRIER BELT

BACKGROUND OF THE INVENTION

[0001] 1) Field of the Invention

[0002] The invention herein relates to portable pneumatic tool systems, specifically a pneumatic tool system operation and carrier belt comprised of a band worn around the waist of the user and from which is suspended a plurality of cinctures that respectively hold a set of hand tools, a pneumatic tool, a mini compressor, a small battery, and goggles that enables the user to operate the pneumatic tool so contained directly from the carrier belt at work sites because the power supply as well as the compressed air source are already connected therein, which improves upon the conventional need to connect a confusing array of equipment cables and hoses and, furthermore, the present invention does not hinder work and prevents accidental injury and other hazardous situations, thereby providing a carrier belt that facilitates construction and manual dexterity.

[0003] 2) Description of the Prior Art

[0004] Conventional pneumatic tools at home and office construction sites typically include pneumatic nailing guns utilized to fire nails into wood work and that are connected to air compressors. Since air compressors require mains electric power to operate, the area is usually quite disorderly with cables and hoses for various mechanical equipment routed along the floor. This is a major inconvenience to workers since a momentary attention lapse could result in a fall. It is even more hazardous if a worker is holding a heavy object or a sharp tool and loses balance or does so by stepping into a hole or slips. When the construction position is between stairway steps or at ceilings, there are generally no mains outlets available and the movement needs of other workers must also be considered. As a result, most heavy air compressors are usually placed at wider level surfaces downstairs, but this considerably increases the length of hoses between pneumatic nailing guns and the air compressors, with the additional hose length raising the overall weight of the nailing guns held by the construction workers. This causes soreness in the hands of the workers. At the same time, nailing guns laden with such hoses impose a feeling of impeded manual dexterity.

[0005] In view of the said inconveniences and drawbacks resulting fro the use of pneumatic tools during construction, the applicant developed the invention herein and submitted an application for patent rights.

SUMMARY OF THE INVENTION

[0006] The primary objective of the invention herein is to provide a pneumatic tool system operation and carrier belt comprised of a band worn around the waist of the user and from which is suspended a plurality of cinctures that respectively hold a set of hand tools, a pneumatic tool, a mini compressor, a small battery, and goggles, such that the user goes to the work site only wearing the carrier belt holding the entire pneumatic tool system and operates the pneumatic tools directly from the belt because the power supply and compressed air source are built in, which improves upon the conventional need to connect a confusing array of equipment cables and hoses; furthermore, the present invention does not hinder work and prevents accidental injury and other hazardous situations, and thereby provides a carrier belt that facilitates construction and manual dexterity.

[0007] The improved structural features of the present invention are further elaborated by the accompanying brief description of the drawings below and followed by detailed description of the invention herein.

BRIEF DESCRIPTION OF THE DRAWINGS

[0008] **FIG. 1** shows an isometric drawing of the invention herein.

[0009] **FIG. 2**-A shows an exploded drawing o the hand tools cincture of the invention herein.

[0010] **FIG. 2**-B shows an isometric drawing of the hand tools cincture of the invention herein.

[0011] **FIG. 3**-A shows an exploded drawing of the nailing gun cincture of the invention herein.

[0012] **FIG. 3**-B shows an isometric drawing of the nailing gun cincture of the invention herein.

[0013] **FIG. 4**-A shows an exploded drawing of the mini air compressor cincture of the invention herein.

[0014] **FIG. 4**-B shows an isometric drawing of the mini air compressor cincture of the invention herein.

[0015] **FIG. 5**-A shows an exploded drawing of the goggles and nails cincture of the invention herein.

[0016] **FIG. 5**-B shows an isometric drawing of the goggles and nails cincture of the invention herein.

[0017] **FIG. 6** shows an isometric drawing of an embodiment of the invention herein.

DETAILED DESCRIPTION OF THE EMBODIMENT

[0018] Referring to **FIG. 1**, the pneumatic tool system operation and carrier belt of the invention herein is comprised of a band **1** worn around the waist of the user and from which is suspended a plurality of cinctures **2**, **3**, **4**, **5**, and **6** that respectively hold a set of hand tools **2**A, a pneumatic tool **3**A, a mini compressor **4**A, a small battery **5**A, and goggles **6**A, wherein the band **1** has a plurality of insert holes **11** formed in it for accessories hanging, including the attachment of a shoulder strap **1**A, and a length of tubing **12** embedded along a portion of the said band **1** to provide for the insertion of an adjustable cable **5**B that resists tangling as well as knotting and does not hamper user operation; the hand tools **2**A cincture **2**, as indicated in **FIG. 2**-A, consists of an adhesive margin **21** and a fold **22** at two places at its inner surface and a hole mount **23** disposed at its outer surface such that the adhesive margin **21** and the fold **22** are glued together to construct a loop through which the band **1** is inserted, and all the hand tools **2**A, such as a screw driver, a Philips screw driver, and a hammer, are placed into the hole mount **23**, as indicated in **FIG. 2**-B; the pneumatic tool, such as a nailing gun **3**A, cincture **3**, as indicated in **FIG. 3**-A, consists of an adhesive margin **31** in a double layered arrangement with a fold **32** such that the adhesive margin **31** and the fold **32** are glued together to construct a loop at its inner layer through which the band **1** is inserted and the conjoined adhesive margin **31** and fold **32**

at the outer layer provide for the placement of the nailing gun **3**A, as indicated in **FIG. 3**-B; the mini air compressor **4**A in a double layered arrangement with the fold **42** such that the adhesive margin **41** and the fold **42** are glued together to construct a loop at its inner layer through which the band **1** is inserted and after the forming of a wider space at the outer layer by the adhesive margin **41** for the placement of the mini air compressor **4**A, the fold **42** is secured into position and suspended from the band **1**, as indicated in **FIG. 4**-B; the small battery **5**A cincture **5** is fabricated in the same manner as the mini air compressor **4**A cincture **5** is fabricated in the same manner as the mini air compressor **4**A cincture **4**; the goggles **6**A and nails **6**B cincture **6**, as indicated in **FIG. 5**-A, consists of an adhesive margin **61** in a double layered arrangement with the fold **42** such that the adhesive margin **61** and the fold **62** are glued together to construct a loop at its inner layer through which the band **1** is inserted and after the forming of two compartments at the outer layer by the adhesive margin **61** for the placement of the goggles **6**A and nails **6**B, the fold **62** is secured into position and suspended from the band **1**, as indicated in **FIG. 5**-B.

[**0019**] As such, the cable **5**B is inserted through the length of tubing **12** in the band **1** between the small battery **5**A and the mini air compressor **4**A such that tangling, knotting, and hindrances to user **7** operation does not occur and an elastic recoiling type air hose **4**B from the mini air compressor **4**A is connected to the nailing gun **3**A, with the extended length air hose **4**B capable of being coiled and stored inside the mini air compressor **4**A cincture **4**; when preparing for operation, the user **7** gathers the pneumatic tool system components (the mini air compressor **4**A and the small battery **5**A) and places them into the respective cinctures on the band **1**; the band **1** is worn around the waist of the user **7** and the shoulder strap **1**A is hitched on and adjusted as necessary for suspension support such that the load is distributed between the lateral part of the upper body and the waist, as indicated in **FIG. 6**; the user **7** is then outfitted with a fully equipped, self-contained band **1** and proceeds to the work site, where the external cables and hoses of the conventional arrangement are no longer required, which thereby effectively improves work site conditions.

[**0020**] Furthermore, since the user **7** is carrying a complete system of tools, it is only necessary to lift the fold **32** over cincture **3** holding the nailing gun **3**A to remove the nailing gun **3**A, pull the air hose **4**B out an appropriate length, and switch on the mini air compressor **4**A by bringing it into continuity with the small battery **5**A to thereby operate and utilize the nailing gun **3**A; the user **7** also then takes out the goggles **6**A for eye protection as well as nails **6**B from the band **1** when the nailing gun **3**A requires reloading, the latter convenience making it unnecessary for the user **7** to repeatedly leave and return for nails; following completion of usage, the nailing gun **3**A and the goggles **6**A are placed back into their original positions, the elastic air hose **4**B automatically recoils into its storage space, and the mini air compressor **4**A is switched out of circuit with the small battery **5**A, all the said components remaining entirely contained within the band **1**.

[**0021**] At the same time, the said cinctures can be attached by means of male and female fasteners and other similar arrangements.

[**0022**] Given the said approach, the present invention not only provides for a versatile and portable carrier belt capable of being brought to any location, it also affords direct operation from the band **1**, thereby achieving demonstrable practical functionality. Since the invention herein possesses utility, it meets patent application requirements and is hereby submitted to the patent bureau for review and the granting of the commensurate patent rights.

What is claimed is:

1. A Pneumatic tool system operation and carrier belt comprised of a band worn around the waist of the user and from which is suspended a plurality of cinctures that respectively hold a set of hand tools, a pneumatic tool, a mini compressor, a small battery, and goggles that enables the user to utilize the said pneumatic tool so contained directly from the carrier belt at work sites because the power supply as well as the compressed air source are also connected therein to thereby effectively facilitate operation, manual dexterity, and portability.

2. As mentioned in claim 1 of the pneumatic tool system operation and carrier belt of the invention herein, each said cincture consists of an adhesive margin and a fold that are glued together to construct a loop.

3. As mentioned in claim 1 of the pneumatic tool system operation and carrier belt of the invention herein, the said cinctures can be attached by means of male and female fasteners and other similar arrangements.

4. As mentioned in claim 1 of the pneumatic tool system operation and carrier belt of the invention herein, a shoulder strap is hitched onto the said band and utilized to distribute the overall load between the lateral part of the upper body and the waist.

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