Nov. 5, 1968 H. H. SCOTT 3,409,192

FIRE FIGHTING EQUIPMENT

Filed March 6, 1967

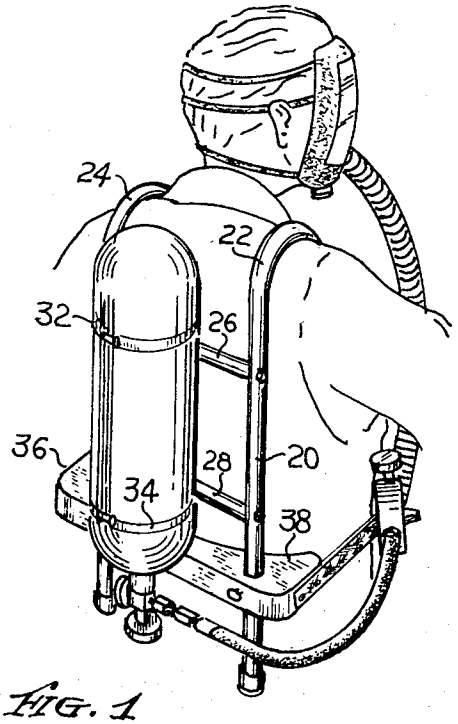


FIG. 1

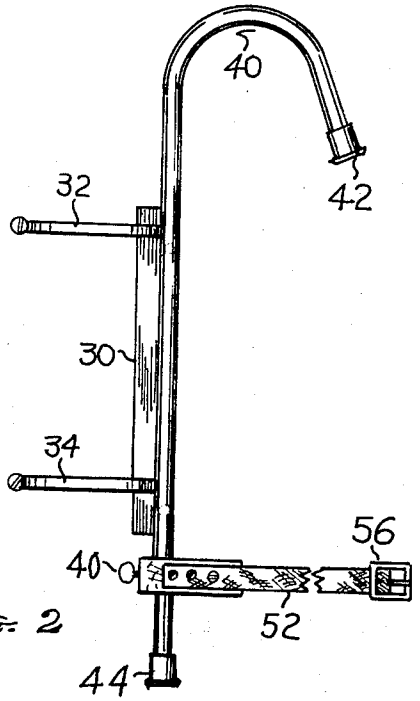


FIG. 2

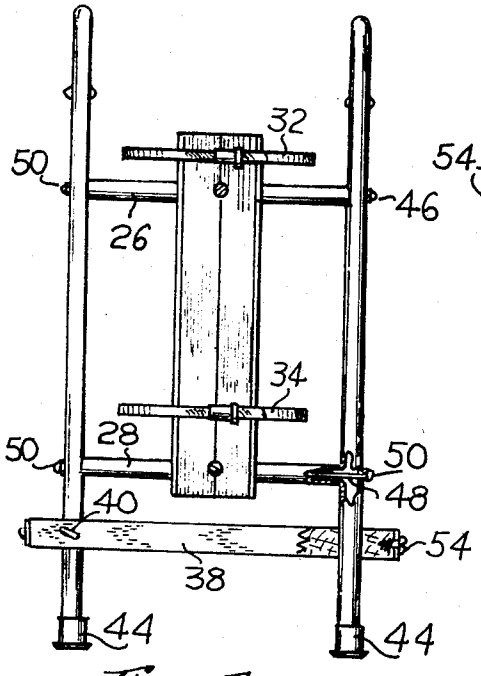


FIG. 3

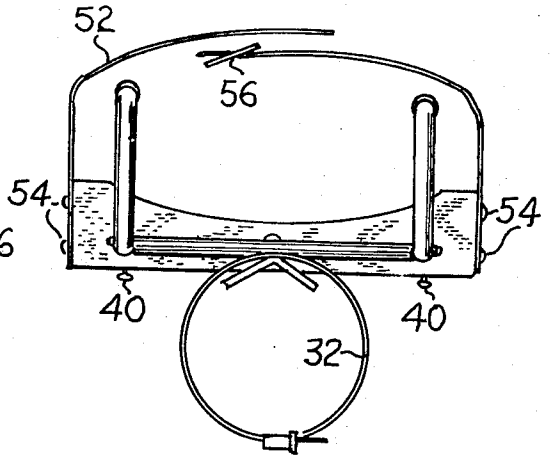


FIG. 4

INVENTOR.
HENRY H. SCOTT
BY
LIONEL V. TEFFT
Attorney

United States Patent Office

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FIRE FIGHTING EQUIPMENT

Henry H. Scott, 7444 Joshua View,
Yucca Valley, Calif. 92284

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ABSTRACT OF THE DISCLOSURE

An apparatus for fire fighting as constituted by a tubular framework readily detachable from the back and shoulders of the operator and including spacer bars with vertical support for the oxygen bottle. The framework has a solid conforming back and waist supporting member adjustably secured thereto.

This invention relates generally to fire fighting equipment and particularly to a back pack for breathing apparatus. An apparatus for fighting fires comprising quick detachable shoulder clamps connected to support vertically an oxygen bottle and an adjustable solid waist supporting member.

One of the main objects of the invention is to provide a light, comfortable, quickly put on carrier for apparatus used for fire fighting.

Another object of the invention is to provide a light comfortable back pack adaptable to many kinds of fire fighting equipment.

Yet another object of the invention is to provide a means at quickly and easily putting on or taking off a back pack unit or fire fighting equipment.

Other objects and advantages of the present invention will become apparent to those skilled in the art upon consideration of the following detailed description of the preferred embodiment thereof, reference being had to the accompanying drawing, wherein:

FIGURE 1 is a perspective view of the device in use;
FIGURE 2 is plan side view of the back pack;
FIGURE 3 is a back view of the back pack;
FIGURE 4 is a top view of the back pack.

Referring to the drawings a back pack **20** is composed of a pair of contoured side members **22** and **24** with horizontally disposed spacers **26** and **28** to which attached a vertical angled member **30** to which various types of packs may be attached by means of a pair of clamps **32** and **34** so disposed and at such size and means at adjustment that different types of individual fire fighting equipment may be easily attached and carried.

A horizontal adjustable member **36** is mounted on the lower parts of the contoured side members **22** and **24** which is contoured by a suitable support **38** and locked in a comfortable position by means of set screws **40**.

The contoured side members **22** and **24** are shaped in manner to provide proper weight distribution on the shoulders and yet provide unobstructed movement of the arms with a curve and straight sections **40**. Rubber caps **42** are placed over the ends for cushioning and protection from sharp edges.

Additional rubber caps **44** cover the lower ends of the contoured side members and provide a non-slip footing for support of the back pack when not in use or in storage.

The horizontal spacers are rigidly attached to the contoured side members by means of rods **46** and **48** and tightly secured by means of nuts **50**.

A belt **52** is attached to the adjustable horizontal back support **36** by means of screws **54**. The belt is adjustably secured around the waist of wearer by means of a buckle **56** or a quick disconnect type of fastener such as is used on safety belts.

Before explaining the detailed use and operation of the device it is deemed essential that the materials used and the exact shape of the components may be varied according to type of equipment attached and the size of the wearer without departing from the spirit of the invention.

In using this device it must be kept in mind that it is essentially designed as fire fighting equipment and is so designed that fire fighting equipment may be quickly attached and/or changed as required. When a piece of equipment is mounted on the back pack the weight distribution is properly placed and all controls easily accessible. Further it is absolutely essential that freedom of movement is not hampered, and removal is quick and easy. Safety of the wearer is of prime importance in this device. It should also be noted that a minimum of parts are used to obtain the desired objectives of the device which are a comfortable shoulder fit, proper mounting of the load and an adjustable contoured back piece with attaching strap.

While I have shown and described in considerable detail what I believe to be the preferred form of my invention, it will be understood by those skilled in the art that various changes may be made in the shape and arrangement of the various parts without departing from the broad scope of the invention as defined in the following claim.

I claim:

1. A fire fighting apparatus, comprising:
a pair of tubes curved at the top to fit in quick detachable manner over the shoulders of the operator and extending downwardly therefrom;
a pair of horizontal spacer bars for said tubes;
a vertically disposed oxygen bottle support secured to said spacer bars;
oxygen bottle securing clamps on said vertical support;
a solid conforming back and waist supporting member slidably and adjustably secured to the lower ends of said tubes;
means for adjustably securing said waist support to the operator's body; and
a conventional oxygen bottle and face mask clamped to said vertical support.

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HUGO O. SCHULZ, *Primary Examiner.*