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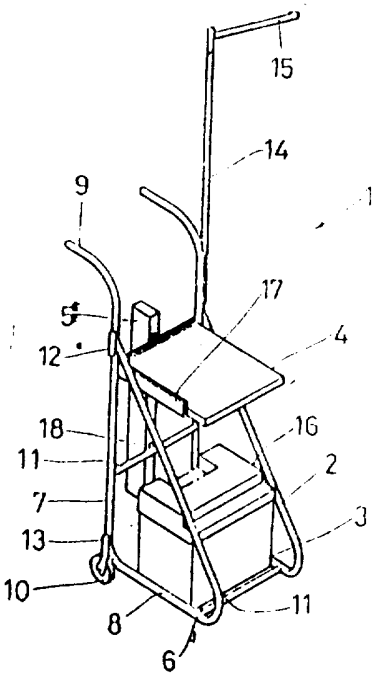
(54) **Title:** Power Supply

(57) **Abstract:**

A portable electric power supply includes a wheeled frame, an electrical battery on a suitable support formation, and a suitably oriented photovoltaic module supported on the frame and connected to the electrical battery to effect charging thereof.



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(56) **Documents cited:** US 4 725 740 DE 053 513 311 A1 US 4 117 342
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POWER SUPPLY"

THIS INVENTION relates to an electrical power supply which is portable.

An object of the invention is to provide an electrical power supply which is portable and which may be used to power small electrical apparatuses such as lights for example.

In this specification the term "battery" includes a single unit within its meaning.

/According to

According to the invention a portable electrical power supply comprises a frame, a support formation for location of an electrical power supply battery on the frame, a photovoltaic module mounted to the frame in a suitable orientation, means for connecting the photo electric cells to the electrical battery for the charging thereof.

Further according to the invention the supply includes an electrical battery on the support formation and the photovoltaic module is comprised of cells of silicon.

Still further according to the invention the supply includes means for connecting the electrical battery to an electrical apparatus, and the frame includes means for the support of an electrical apparatus.

Still further according to the invention the supply includes an electrical apparatus and the apparatus is a light.

Still further according to the invention the frame of the supply includes wheels on which it may be manoeuvred and suitable handles.

/Still further

Still further according to the invention the electrical battery support formation includes a housing.

An embodiment of the invention described by way of example only follows with reference to the accompanying drawing which depicts a power supply.

In this embodiment of the invention a portable electrical power 1 comprises a tubular steel frame 2 supporting a container 3 for a lead acid battery, a photovoltaic module 4 and an elongated neon strip light 5.

The frame 2 comprises two spaced side members 6 which are substantially in the form of right-angled triangles, the long sides 7 directed vertically and the short sides 8 horizontally. The long sides 7 terminate in their upper ends in a pair of curved handles 9. At their lower ends they carry a small wheel or castor 10 on which the frame may be moved.

The side members 6 are interconnected by a plurality of cross members 11.

/On each

On each of the upright members 7 of the frame 2 are located a pair of spaced sockets 12 and 14 which serve to removably locate a 2-piece standard 14 having a transversely projecting arm 15 at its upper end.

At the bottom of the frame and extending between the two horizontal portions 8 thereof is the plastic container 3 for the electrical battery. This has a suitable lid 16.

Above the container 3 is a set of brackets 17 which locate the battery of solar cells 4 at a preselected angle to the horizontal this angle being optimised for the collection of solar energy.

At the rear of the frame and between the two uprights 7 are formations 18 located on cross members 11 for the location of the neon light 5. The light may be easily removed from this location and located on a transverse member 15 of the standard 14.

The photovoltaic module is connected to a battery (not shown) in the container 3 and the battery in turn is

/connected to

connected to the neon light 5 which incorporates a suitable switch.

During the day time the electrical supply is placed out of doors where the photovoltaic module 4 can best be activated by the sun to charge the battery within the container 3. At night time the supply 1 is wheeled to any suitable location where the light 5 may be used.

The invention thus provides a useful power supply for areas where power, from a national grid for example, is not available. It also provides a convenient emergency supply.

It will be appreciated that the supply could be used, with small electrical apparatuses other than the lights envisaged in the embodiment described above.

Still further embodiments are enviaged within the scope of the invention including other configurations and applications thereof.

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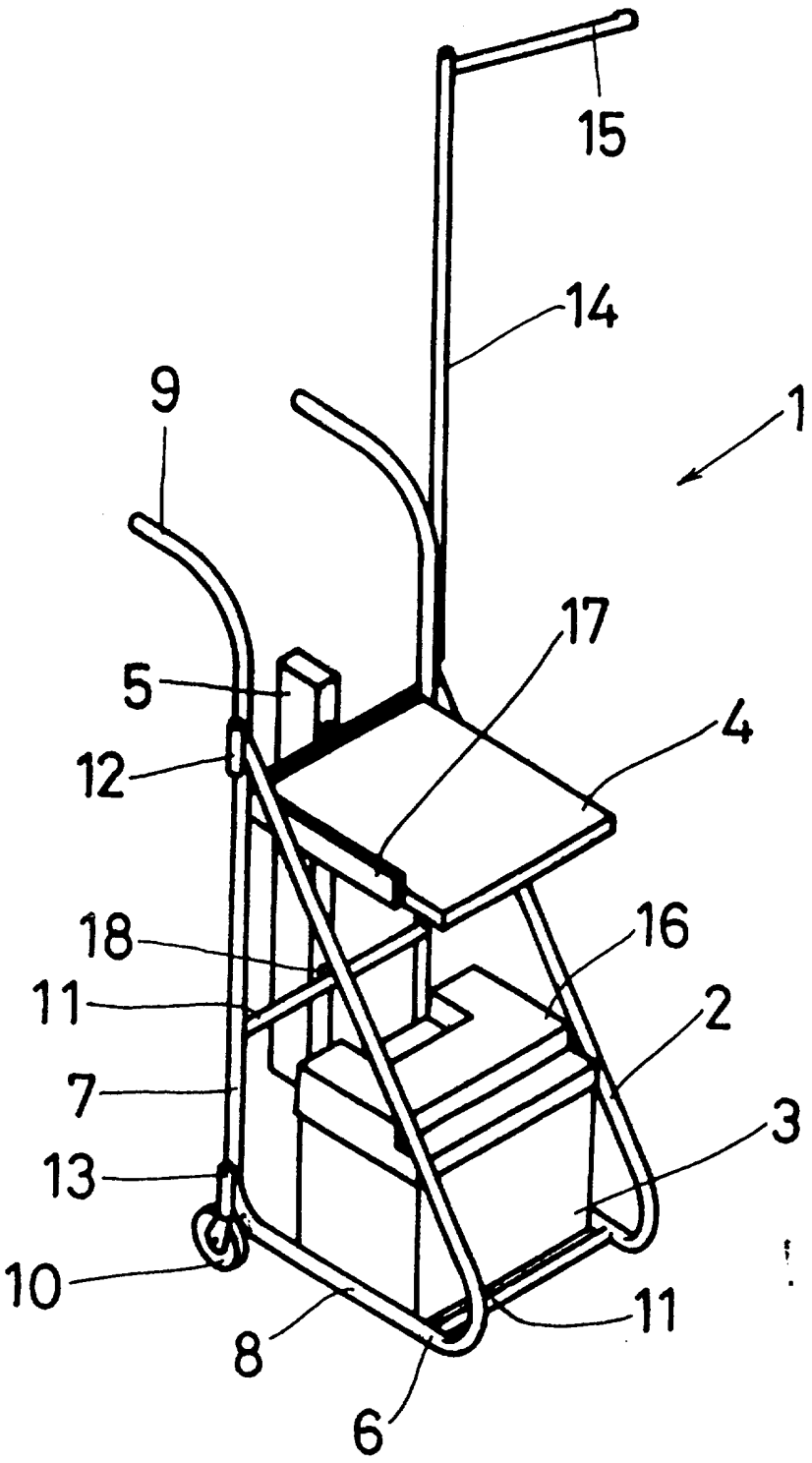

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