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(54) Transformer Transport Means

(57) The invention relates to a carrying case 1, having a transformer 2 set within it, and socket means 5, 6 lying externally of the carrying case 1 whereby the transformer 2 can be connected to a source of mains electricity supply and connected to a power tool, the transformer 2 being so located within the carrying case 1 as to leave space for a power tool operable from a reduced voltage.

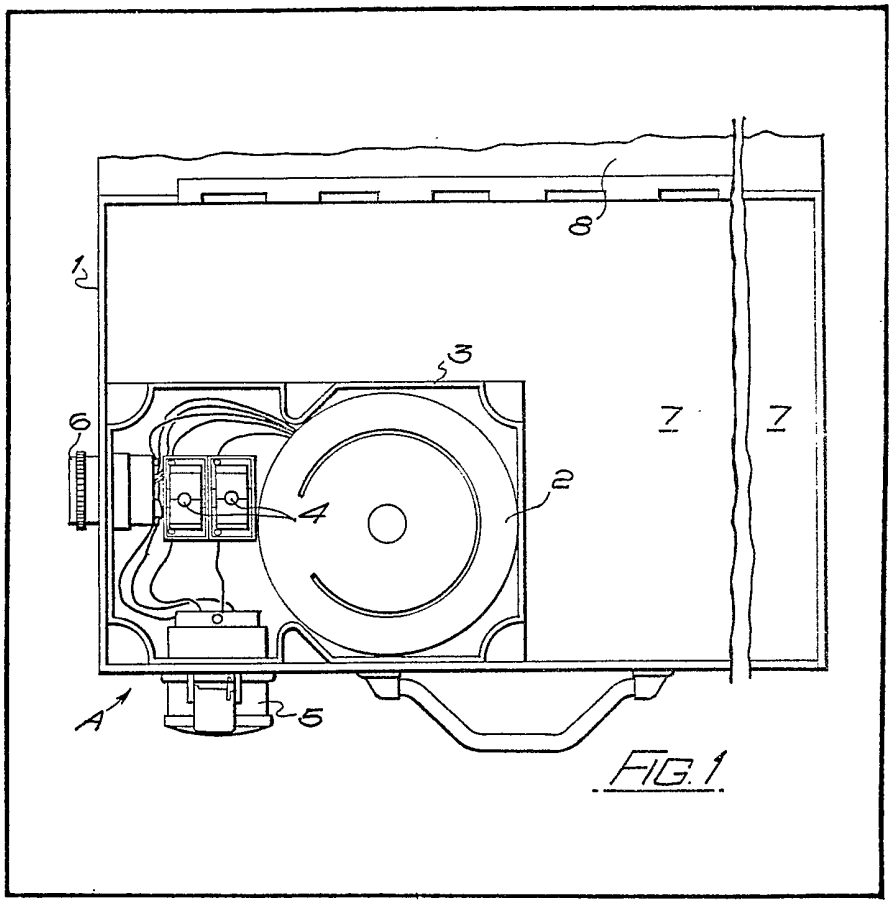

FIG. 1

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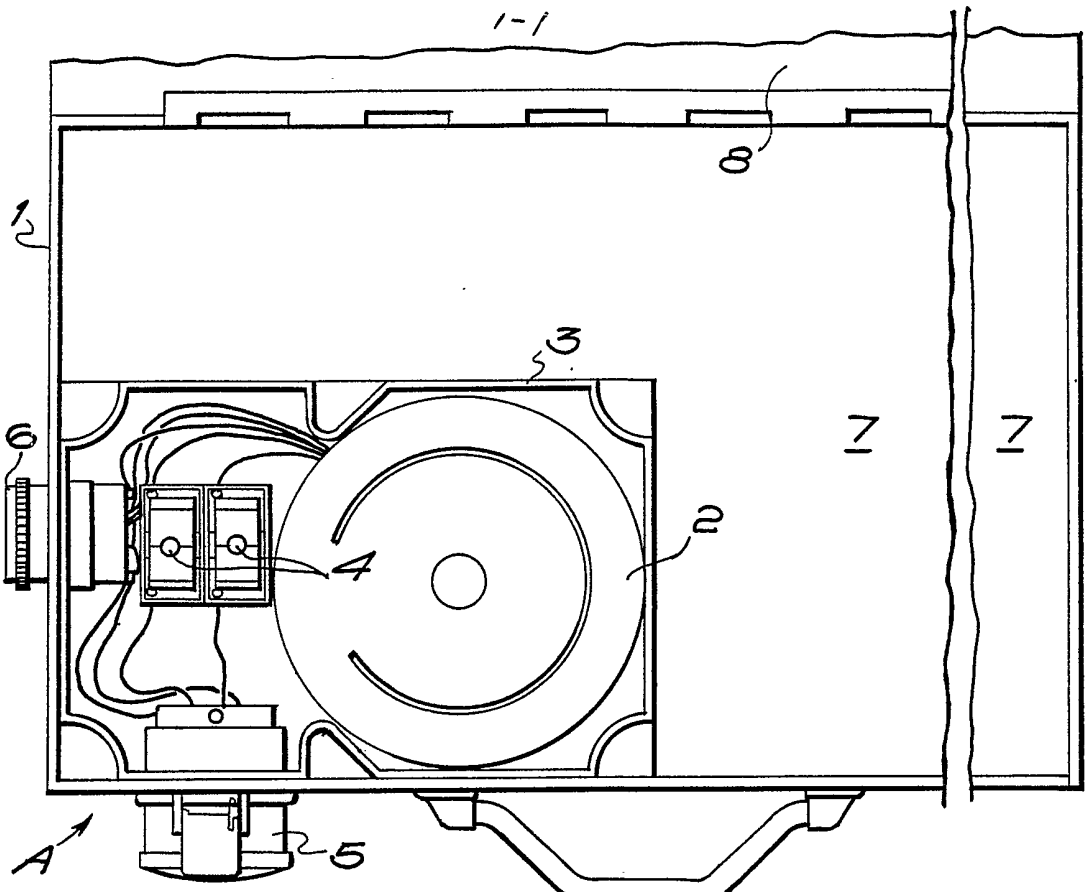

FIG. 1

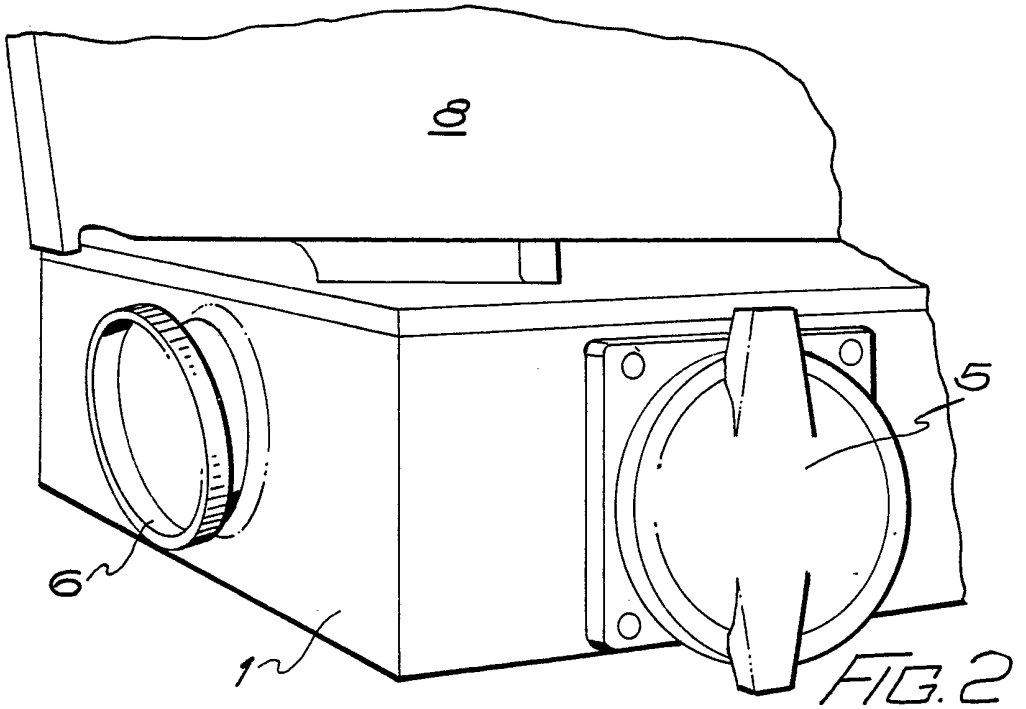

FIG. 2

SPECIFICATION

Transformer Transport Means

This invention relates to transformer transport means.

When electrically driven power tools such as drills, hammers, saws and the like are used in such locations as a building site, it is prohibited for the power tool to be operated on normal mains voltage. To ensure the safety of the operatives, it is required that such power tools work from a reduced voltage and it is therefore necessary to provide a transformer adapted for connection to mains supply and adapted for connection to the power tool and whereby the power tool can operate on reduced voltage. The need to provide a transformer introduces its own hazards in the sense that an operative must carry not only the power tool but also the transformer to a required location, and the required location is frequently at an elevated or lowered position forcing the operative to climb, e.g., ladders with both hands occupied in carrying the transformer and the power tool.

The object of the invention is to provide transformer transport means which avoid the above problems.

According to the present invention, transformer transport means comprises a carrying case, a transformer set within the carrying case, socket means lying externally of the carrying case and whereby the transformer can be connected to a source of mains electricity supply and connected to a power tool, the transformer being so located within the carrying case as to leave space within the carrying case and whereby the power tool itself can also be placed within the carrying case for transportation.

Thus, with a power tool placed within the case and the lid secured in position, the carrying case can conveniently be carried in one hand enhancing considerably the transportability of both the transformer and the power tool, this being a significant factor in the use of such power tools on, e.g., a building site.

Preferably the transformer is positioned within a transformer housing, and the transformer housing itself located, e.g., in one corner of the carrying case. It is further preferred that the input and output sockets to and from the transformer extend through a side or end wall of the the carrying case and are rigidly secured to the side or end wall such that the transformer can be connected to mains supply and connected to the power tool externally of the case and yet at the same time maintain all the electrical connections within the transformer housing. It is further preferred that the input and output connections are of the plug-in type with at least the input plug being provided with a dust cap.

The lid to the carrying case is preferably of the hinged type, and the carrying case and its lid should be formed from a relatively rigid, tough, and light weight material such as an appropriate metal alloy or suitable plastics material.

One embodiment of the invention will now be described with reference to the accompanying drawings, in which:—

Figure 1 is a plan view of transformer transport means according to the invention; and

Figure 2 is a side elevation in the direction of arrow A of Figure 1.

In the drawings, a carrying case 1 has a transformer 2 set at one corner enclosed by a housing 3. The housing 3 may encircle the whole of the transformer 2 and its connections 4 to an input socket 5 and an output socket 6. The sockets 5 and 6 lie externally of the case and are set to either side of the corner of the case 1 where the transformer 2 is located.

By setting the transformer 2 at one corner of the case, space 7 is provided within the case in which can be located any power tool to be operated via the transformer 2.

Thus, with the case closable by a lid 8 and provided with a suitable handle and with the input and output sockets 5, 6 externally of the case, a power tool can be removed from the case and the lid closed with all electrical connections enclosed within the case.

The invention therefore provides by simple cost effective means an ability to transport a transformer to any desired location on, e.g., a building site with considerably greater ease than has hitherto been possible, with if required the appropriate power tool to be used. This increases considerably the safety afforded an operative, particularly if he is required to climb, e.g., ladders or scaffolding to bring the transformer to its required location. Also, by locating all electrical connections within the case closed by the lid, the transformer can be used with considerably greater safety afforded the operative than has hitherto been possible.

Claims

1. Transformer transport means comprising a carrying case, a transformer set within the carrying case, socket means lying externally of the carrying case and whereby the transformer can be connected to a source of mains electricity supply and connected to a power tool, the transformer being so located within the carrying case as to leave space within the carrying case and whereby the power tool itself can also be placed within the carrying case for transportation.

2. Transformer transport means as in Claim 1, wherein the transformer is positioned within a tranformer housing inside the case.

3. Transformer transport means as in Claim 2, wherein the tranformer housing is located in one corner of the carrying case.

4. Transformer transport means as in any of Claims 1 to 3, wherein the input and output sockets to and from the transformer extend through a side or end wall of the carrying case and are rigidly secured to the side or end wall such that the transformer can be connected to mains supply and connected to the power tool externally of the case and yet at the same time

,aintain all the electrical connections within the transformer housing.

5. Tranformer transport means as in any of Claims 1 to 4, wherein the input and output connections are of the plug-in type with at least the input plug being provided with a dust cap.

6. Transformer transport means as in any of Claims 1 to 5, wherein the lid to the carrying case is of the hinged type.

7. Transformer transport means substantially as hereinbefore described with reference to the accompanying drawings.

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