Oct. 24, 1950 L. J. DAOUST 2,527,401

COMBINED PACKAGE AND REEL FOR COILED WIRE

Filed Nov. 15, 1949

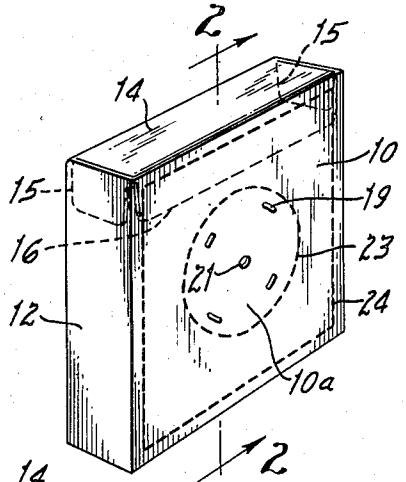


Fig. 1.

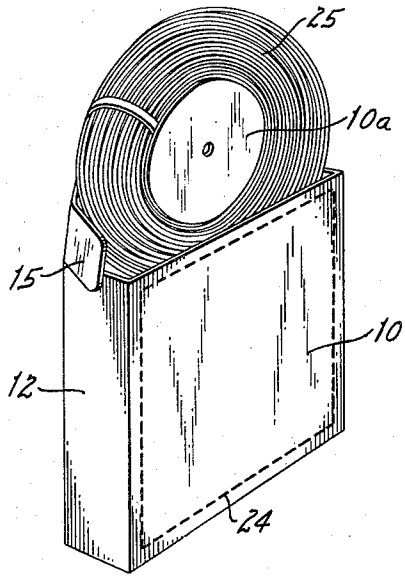


Fig. 4.

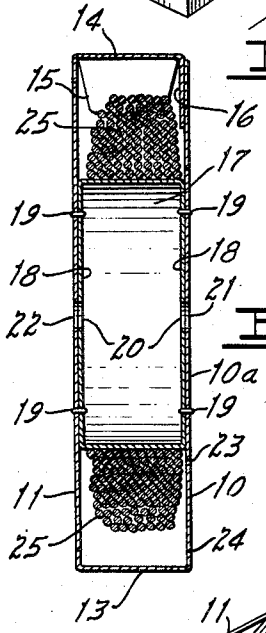


Fig. 2.

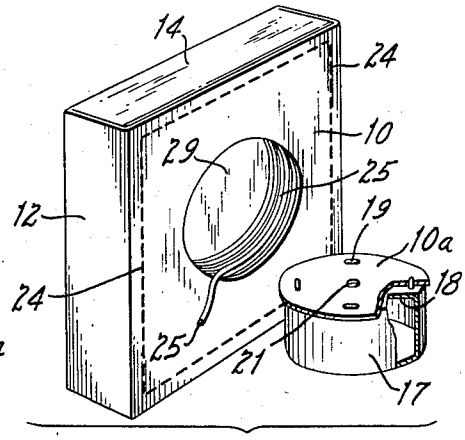


Fig. 5.

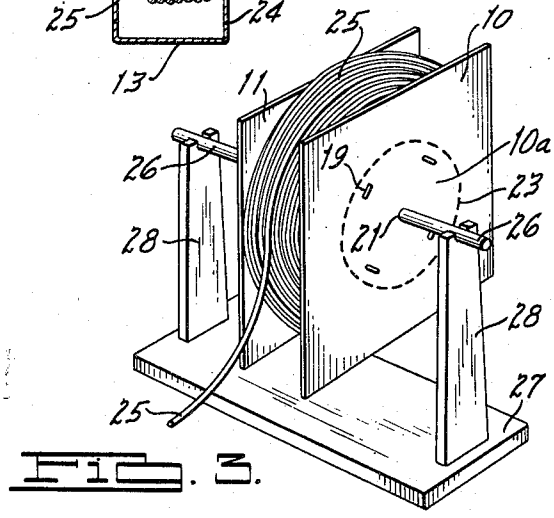


Fig. 3.

INVENTOR:
Lucian J. Daoust,
BY Louis Charpka
ATTORNEY.

Patented Oct. 24, 1950 2,527,401

UNITED STATES PATENT OFFICE

2,527,401

COMBINED PACKAGE AND REEL FOR COILED WIRE

Lucian J. Daoust, Detroit, Mich.

Application November 15, 1949, Serial No. 127,443

4 Claims. (Cl. 206—59)

1

My improvement pertains, in particular, to packages containing insulated wire employed by electricians in wiring architectural structures, such as houses, stores, factories, etc. Up to now the wire for that purpose was delivered in a number of different packages. Once delivered, the wire had to be taken out of the respective package, said wire being pulled from the coil as needed. This procedure often resulted in having the coils tangled up. Frequently, two or three coils of different colored or marked wire had to be used in one electrical circuit. In addition thereto, it would happen that more than one circuit had to be provided for. Under the circumstances, it was necessary to keep the coils from interfering with each other. In cases where the coils were transferred to special reels, the change included unnecessary work and called for an expenditure for said reels. The improvement devised by me will eliminate any trouble resulting from tangling of respective wires, and it will permit a number of coils to be mounted side by side in a workable position. Further advantages of my improvement will be more clearly appreciated in the course of the description thereof.

I shall now describe my combined package and reel with reference to the accompanying drawings, in which:

Fig. 1 is a perspective view of my combined package and reel;

Fig. 2 is a vertical sectional view of the package taken on line 2—2 of Fig. 1;

Fig. 3 is a perspective view of my package with parts thereof removed, the package being shown as supported on a stand to serve as a reel;

Fig. 4 is a perspective view of my package and a coil of wire partly withdrawn therefrom and wound on a hub normally forming a part of my package

Fig. 5 is a perspective view of my package with the wire therein but with the hub portion removed and shown apart from said package.

Similar numerals refer to similar parts throughout the several views.

The package is made in the form of a conventional rectangular container, and it includes a rectangular front wall 10, a similar rear wall 11, two side walls 12, a bottom wall 13, and a top wall 14. The latter is integrally connected to the rear wall 11 and provided with side tongues 15 and a front tongue 16. The construction is well known and needs no further description. The novel features disclosed herein include the following items: Located within the

2

container is a drum-like spool or hub 17 closed at each end by a wall 18, as best shown in Fig. 2. Preferably made of cardboard, it has the shape of a cylindrical box, but it is obvious that it may be made of some other material and that instead of being hollow it may be made solid. The closed ends of the hub, as shown in the drawings, are in abutment with the central portions of the inner surfaces of the front wall 10 and the rear wall 11 of the container, respectively, and are kept in place by means of staples 19 driven through the fabric of the walls 10 and 11 and the end walls 18 of said hub. Centrally located apertures 20 within the closed ends of the hub are in register with a similar aperture 21, in the front wall 10 of the container, and with aperture 22, in the rear wall thereof.

It will be noted that the front wall of the container is perforated along a line 23 forming a circle of a diameter somewhat larger than the diameter of the hub. The perforation is made for ready severance of the central part 10a, outlined by said circle, from said front wall 10. Additionally, both the front wall 10 and the rear wall 11 of the container are perforated along all of their respective sides, as shown in the drawings, the lines of perforation being indicated by numeral 24. The wire 25 disposed within the container is coiled on said hub 17 in the usual manner, one end of the wire being adapted to be attached to the hub, the other end of the wire being located on the outer surface of the coil.

The wire is delivered for use all coiled up upon the hub and enclosed by the container above-described. When the wire is to be used, two alternate methods of unwinding the wire may be used. One is shown in Fig. 3. In this case the side, the bottom, and the top walls of the container are torn off along lines of perforation 24, so that only the front and the rear walls of the container remain in place. A rod 26 may then be thrust through apertures 21, 20, and 22 in the container and the hub, respectively, whereupon the rod may be supported for rotation on an ordinary stand which includes a base 27 and two standards 28, as best shown in Fig. 3. The standards must be high enough to permit rotation upon the rod of the hub and the remaining portions of the container, with the wire coiled upon said hub. A number of other coils may be supported on the same rod, one alongside the other, so that wire from any coil may be available when needed.

Should it be preferred to uncoil the wire with-

out removing the coil from the container, it can be done by removing the hub from the container, as shown in Fig. 5. The removal of the hub is an easy matter: first, the central portion **10***a* of the front wall of the container may be cut out along perforations **23**, whereupon the staples attaching the hub to the rear wall may be cut or removed, this permitting thhe hub to be taken out of said container. The removal of the hub and the central portion **10***a* of the front wall, which central portion is affixed to the closed end of the hub, will leave a large circular opening **29**, in the front wall of the container, affording easy access to the coiled wire within the container, as best shown in Fig. 5.

It will be understood that some changes may be made in the construction of my combined package and reel without departing from the inventive principle disclosed herein.

What I, therefore, wish to claim is as follows:

1. A combined reel and package, as described, and comprising a rectangular container including a front wall, a rear wall, and transversely disposed walls connecting said front and rear walls, a drum-shaped reel having both ends closed and disposed centrally within the container and having its end walls stapled to the front and the rear walls, respectively, the marginal portions of the front and the rear walls being perforated for removal of said transversely disposed walls, the front wall having a circular outline permitting the removal of a wall portion therewithin, and a drum attached thereto.

2. A package and reel combination, as described, said combination including a rectangular container having a flat front wall, a flat rear wall, side walls, a bottom and a top wall, respectively, a drum-shaped reel within the container, the reel being closed at each end, the ends of the reel being straddled by said front and rear walls and being affixed thereto, the container

being perforated along the edges of both the front and the rear walls for severance thereof from all other walls, the front wall having a severable circular portion abutting one end wall of said reel for removal of said reel from said container.

3. In combination, a container having a flat front wall and a flat rear wall, and transverse connecting wall means therebetween, a drum-like reel centrally located between said front and rear walls, the reel having closed ends in abutment with and connected to said front and rear walls, respectively, said front and rear walls being perforated along their outer edges for removal of said transverse connecting wall means, the front wall having a severable circular portion abutting one end wall of the reel for removal of the reel from said container.

4. In combination, a container having a flat front wall and a flat rear wall and transverse wall means therebetween, a cylindrical reel located between said front and rear walls, one end of the reel being in abutment with and connected to the front wall and the opposite end of the reel being in abutment with and connected to the rear wall, the front and the rear walls being perforated along their edges for severance and removal of the transverse wall means, the front wall having a centrally located severable circular portion for removal thereof to allow withdrawal of the reel from the container.

LUCIAN J. DAOUST.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,431,352	Abbott	Oct. 10, 1922
2,101,355	Wonder	Dec. 7, 1937