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(54) **DEVICE FOR LIGHTING UP FLAGS.**

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**US-A-1 383 234**
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## Description

The claimed invention relates to a lighting device used in flagpole for lighting up the flag as, for example disclosed in US—A—1,740,747.

The invention is characterizsed by a translucent tube which encloses light fittings and which is arranged to form a part of the top of a flagpole.

In describing the present invention, reference will be made to the accompanying figures of drawings in which:

Fig. 1 is a longitudinal section through the device applied on a tubular flagpole;

Fig. 2 is a corresponding longitudinal section through the device applied on a massive flagpole.

The device according to the invention consists of a preferably to the outercontour of the top of the flagpole 1 connecting tube 2 made of translucent material. The tubular flagpole showed in Fig. 1 can be made of for example metal or plastic.

The tube 2, which forms the top of the flagpole, is at its lower end supplied with a holder 3 carried out with a threaded lower part 4, which cooperates with an interior thread in the upper part of the pole 1. The tube 2 supports at its upper end a flagpole ball 5 which is carried out with a holderpart 6. Between the holders 6 and 3 extends a fluorescent tube 7 in the whole longitudinal section of the tube 2. The electricity supply for the fluorescent tube 7 is transmitted through a cable 8 inside the flagpole 1.

Referring to Fig. 2, where the flagpole 1 is made of massive material, the lower holder 9 is carried out with a sleeve 10 which surrounds the upper part of the flagpole 1.

The holder 9 also supports a fastening screw 11, which, according to Fig. 2, is lowered in the massive pole 1. In other respects the device according to Fig. 2 is carried out in the same way as showed in Fig. 1. The electricity supply for the fluorescent tube 7 is however arranged with a cable 12 on the outside of the flagpole 1.

Through the present invention an efficient lighting of the flag is obtained without any shadows thrown from the pole on the flag. Another advantage is, compared with other devices for lighting up flags, that drying of a wet flat is made possible thanks to emitted heat from the flurescent tube 7. The device is also simple to arrange.

The invention is not restricted to the description above or to the drawings, but can vary within the limits of following claims.

The translucent tubular part of the flagpole has preferably a length which mainly corresponds to the width of the flag for example at least 0.5 m, 1.0 m, 1.5 m or 2.0 m. A suitable maximum length can be 1.5 m, 2.0 m or 2.5 m. The diameter at the lower part of the translucent tube can be chosen in that way that the lower part surrounds the upper part of the flagpole for example overlapping at least 5 cm, 10 cm or 20 cm and preferably maximum 50 cm or 30 cm. The lower part of the translucent tube can be carried out with about the same outer diameter as the nearby nontranslucent part of the flagpole, whereby these both parts can preferably be connected with an on the inside placed tubular reinforcing part, for example a metal tube preferably a steel tube, which extends a suitable length through the lower part of the translucent tube and the upper part of the nontranslucent part of the flagpole, for example at least 5 cm, 10 cm or 20 cm; preferably maximum 50 cm, 30 cm or 15 cm.

The light source, for example a fluorescent tube, is carried out with a length including the longer part of the translucent tube of at least 50%, 75% or 90% of the tubes length, from the end of the nontranslucent part of the flagpole, including an eventually mounted reinforcing tube.

The translucent part can also be supplied with a grating of the type which is used to neutralize dazzling in the fluorescent tube fittings, preferably with a horizontal directed grating element as plates or the like for preventing that an observer standing on the ground can directly see and be dazzled by the light source. It is even possible to arrange inside the translucent part some form of a reflector, eventually partly translucent, which directs the rays of the lightsource towards the flag. The reflectors can be rotatable and, for example, connected with a weathervane at the top of the flagpole, which adjusts the reflector in the way that the rays are directed towards the flag in the direction of the wind.

The device can also be carried out with a lighted emblem arranged at the top of the flagpole above the translucent part. The lighting of the emblem can be effected by the lightsource for the flag or by a separate light. Such an arrangement is shown in Fig. 3.

## Claims

1. A lighting device used on flagpoles for lighting up the flag, characterized by a translucent tube (2) which encloses light fittings (7) and which is arranged to form a part of the top of the flagpole.

2. A lighting device according to claim 1, characterized by that the light fittings consist of a fluorescent tube (7).

3. A lighting device according to claim 1 or 2, characterized by a translucent tube (2) connecting to the outer contour of the top of the flagpole (1).

4. A lighting device according to any of claims 1—3, which is characterized in that the translucent tube (2) has a length which mainly corresponds to the width of the flag.

5. A lighting device according to any of claims 1—4, characterized in that the translucent tube (2) has a length of at least 0.5 m.

6. A lighting device according to any of claims 1—5, characterized in that the length of the light source (7) is at least 50% of the length of the translucent tube (2).

## Patentansprüche

1. Beleuchtungsvorrichtung zur Verwendung an Fahnenmasten zur Beleuchtung der Fahne,

gekennzeichnet durch ein durchsichtiges Rohr (2), das Beleuchtungskörper (7) umschliesst und das so angeordnet ist, dass es einen Teil des Oberteils des Fahnenmastes bildet.

2. Beleuchtungsvorrichtung nach Anspruch 1, dadurch gekennzeichnet, dass die Beleuchtungskörper aus einer fluoreszierende Röhre (7) bestehen.

3. Beleuchtungsvorrichtung nach Anspruch 1 oder 2, gekennzeichnet durch ein durchsichtiges Rohr (2), das an der Aussenkontur des Oberteils des Fahnenmastes (1) anschliesst.

4. Beleuchtungsvorrichtung nach einem der Ansprüche 1—3, dadurch gekennzeichnet, dass das durchsichtige Rohr (2) eine Länge aufweist, die im wesentlichen der Breite der Fahne entspricht.

5. Beleuchtungsvorrichtung nach einem der Ansprüche 1—4, dadurch gekennzeichnet, dass das durchsichtige Rohr (2) eine Länge von mindestens 0,5 m aufweist.

6. Beleuchtungsvorrichtung nach einem der Ansprüche 1—5, dadurch gekennzeichnet, dass die Länge der Lichtquelle (7) mindestens 50% der Länge des durchsichtigen Rohres (2) entspricht.

**Revendications**

1. Appareil d'éclairage utilisé sur des mâts de pavillons pour éclairer le pavillon, caractérisé par un tube translucide (2) qui comprend un équipement lumineux (7) et qui est agencé pour former une partie du sommet du mât de pavillon.

2. Appareil d'éclairage selon la revendication 1, caractérisé en ce que l'équipement lumineux (7) consiste en un tube fluorescent.

3. Appareil d'éclairage selon la revendication 1 ou 2, caractérisé par un tube translucide (2) se connectant au contour externe du sommet du mât de pavillon (1).

4. Appareil d'éclairage selon l'une quelconque des revendications 1—3, caractérisé en ce que le tube translucide (2) a une longueur qui correspond essentiellement à la largeur du pavillon.

5. Appareil d'éclairage selon l'une quelconque des revendications 1—4, caractérisé en ce que le tube translucide (2) a une longueur d'au moins 0.5 m.

6. Appareil d'éclairage selon l'une quelconque des revendications 1—5, caractérisé en ce que la longueur de la source lumineuse (7) est au moins 50% de la longueur du tube translucide (2).

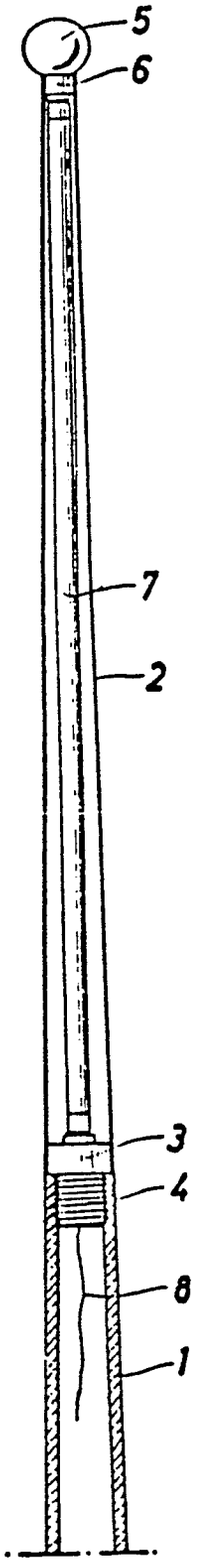


FIG. 1

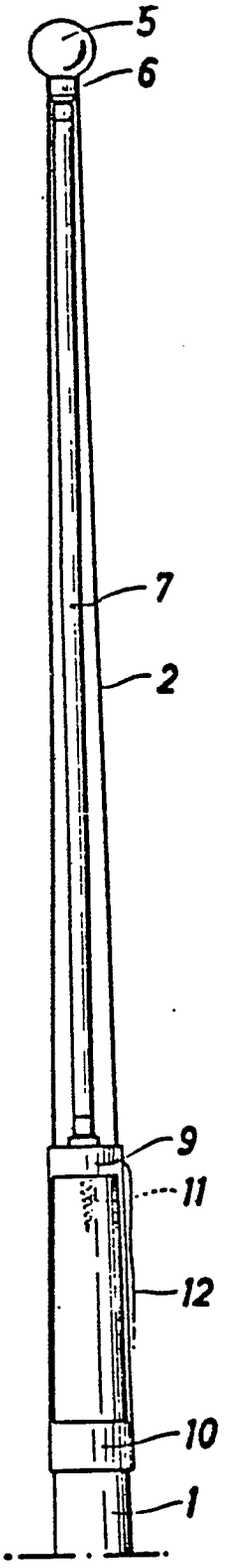


FIG. 2

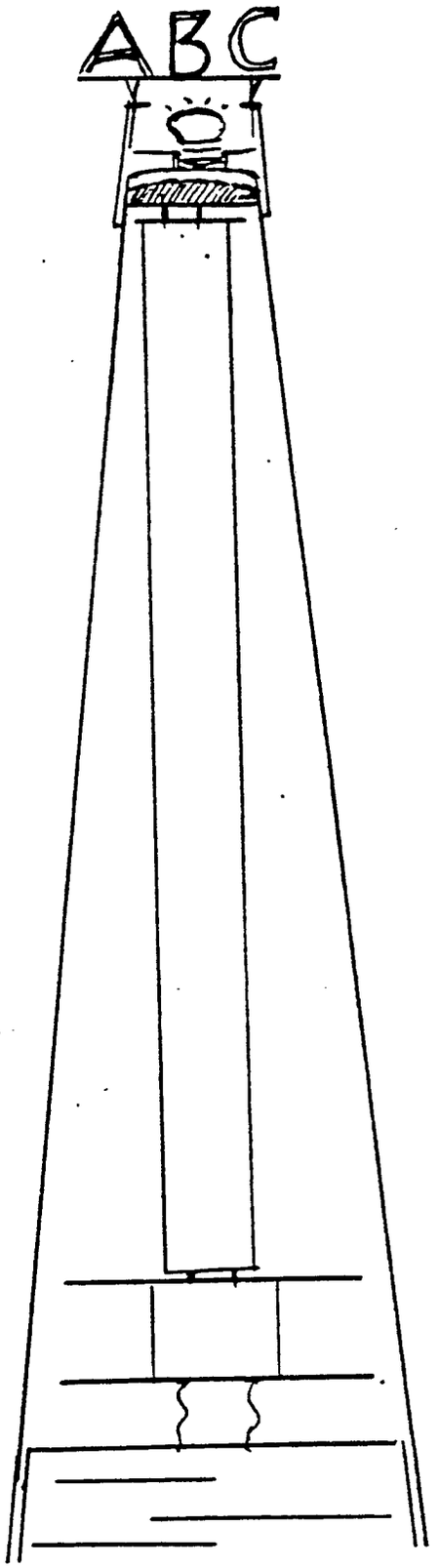


Fig. 3