



⑫

EUROPEAN PATENT APPLICATION

⑳ Application number : **91830088.0**

⑤① Int. Cl.⁵ : **D06F 57/12**

㉔ Date of filing : **12.03.91**

㉓ Priority : **12.03.90 IT 475990**

④③ Date of publication of application :
13.11.91 Bulletin 91/46

⑧④ Designated Contracting States :
AT BE CH DE DK ES FR GB GR LI LU NL SE

⑦① Applicant : **Venturini, Luciano**
Via Frati, 2
Budrio (Bologna) (IT)

⑦② Inventor : **Venturini, Luciano**
Via Frati, 2
Budrio (Bologna) (IT)

⑦④ Representative : **Gristina, Giorgio**
Studio Rag. GRISTINA Giorgio Via Po, 49
I-00198 Roma (IT)

⑤④ **Retractable clothes-lines support.**

⑤⑦ The subject of the instant patent is a retirable linen spreading, provided with a particular adaptability feature on all tipe of manufactured items, both to be put inside or outside, that can take three different operating positions, that is closed position, perfectly on the vertical middle line with reference to its anchorage, inside opening position, with the arms along the perpendicular axis, outside opening position, being as above on the middle line, but with opposite direction. The above mentioned arms are running, together with a fastening bolt, within a purposely made hollow slot included in the upper element, which consents not only the translation movement but also a 270° rotation in the three already mentioned working positions.

The subject of the instant patent is a retrievable linen spreading, which can be produced of several raw materials, being provided with a particular adaptability feature on all type of manufactured items, both to be put inside or outside.

Up to nowadays the spreadings to be found on the market did result not too practical in the use and not too easy to move, and often it had been necessary to make use of suddenly arranged metal profiles fitted to the purpose, with a number of job discomforts in finding and installing the required material, and apart of it the serious danger conditions about the safety of the user as well as of third persons, and also the lack of stylish respect of the architectural building lines. The above mentioned spreading is intended to solve the above mentioned drawbacks.

In particular, thanks to its versatility, permitting it to be utilized in several positions, it is provided with a thoroughly studied mechanism for its complete closure, with a rotation of quite 270° thus causing it to come back in a complete way, to the inside of the balcony.

From the analysis of the object one can see its easiness of installation on projecting parts of every material, and how easy it is possible to install it on different thicknesses, and further how it is apt to cover every type of lenght in accordance with the requirements of its user; no fixed encumbrance, a sturdy geometric configuration, independently from the material used to build it.

Notwithstanding the following detailed description, the linen spreading is supplied, of course, in pairs, even if it is possible to supply single pieces in case it is required to have such items for some particular lengths.

Advantages and features shall result from the above mentioned description, which represents a preferred carrying-out form, in this particular instance all the material used is stainless steel, but these are not exclusive features of the invention, which is shown without any limitation and as an indication only in the Tables of the attached drawings, wherein:

FIGURE 1 - Side view of the retrievable linen spreading, showing all parts of it, organ or element of same, being several times represented and always distinguished with the same number of the figure. With reference to the description in the margin, one may notice its three different functions:

I) Closed position, perfectly on the vertical middle line with reference to its fastening or anchorage, with a very small encumbrance size, and possibility of use for small size articles. II) Inside opening position, with the arms along the perpendicular axis, in order to be able to make use of it in case of unfavorable weather conditions. III) Outside opening position, being as above on the middle line, but with opposite direction, and a large possibility of use for all kinds of items to be let there to dry. And indeed, thanks to its sturdiness

quality, the safe and sturdy lever consisting of 25 mm \varnothing pipes, are able to support considerable loads.

The above mentioned arms are running, together with a fastening bolt, within a purposely made hollow slot included in the upper element (No. 2 - FIGURES 1-2) which consents not only the translation movement but also a 270° rotation in the three already mentioned working positions.

FIGURE 2 - It is a front view in the closed position, which shows not only the fastening of the item on a balustrade, being hypothetical as a matter of facts, but also the top element (No. 2 - FIGURES 1-2-3) with diameter 2 mm, and the bottom element (No. 5 - FIGURES 1-2-4), and also the anti-sliding trapeze bar (No. 4 - FIGURES 1-2-3), being connected, thanks to a bolt, under the top element.

FIGURE 3 - It shows the top element, being seen in three positions: side position, front position, and from the top side. The first detail (No. 2) shows the arm in one of its three positions, the rest position (No. 1), as well as the two bolts passing inside the guide of the top element (No. 2), where one of them, thanks to another slot having been cut in the lower part of the top element, supports the trapeze bar (No. 4) in one of the possible assembly positions, ending under the bottom element (No. 5 - FIGURE 4) with washer and nut for the fastening. The other bolt passes through, inside, the above mentioned top element (No. 2) and the trapeze bar (No. 3) being welded and therefore forming an unitary body with the same element. Also in this case the bolt ends under the bottom element (No. 5 - FIGURE 4) with nut and washer, for the fastening.

FIGURE 4 - It represents the bottom element (No. 5) being seen, the same as above, from the side, frontally and from above. In this element, the last one, a further slot according to the above has been made, in order to consent the installation of the retrievable linen spreading on many different thicknesses. The same as for the top element, in the bottom one also they did make a suitable place for the arms, once they have been placet to their closed position.

In the considered case, the function is not only a mater of fine looking, but it is above all a matter of operation, in oder to avoid all possible convergency of the above mentioned levers in their closed position, due to the tension of the wires passing through the same ones.

A short mention is due to the wires to be used; after careful load tests, the most suitable ones did results the nylon wires with diameter 5/6 mm; there is almost no possibility of wear since they pass through some special abrasionproof bushings being installed within suitably placed holes in the arms.

Claims

1. Retirable linen spreading being suitable to be made in different materials, and preferably in stainless steel, characterized by a very particular system of slots being made on the sides and within the opening-closing mechanism, in an arc of 270°. 5
2. Retirable linen spreading, according to the claim 1, characterized by the fact that the arms are connected with the part of the top element of the mechanism through bolts and nuts, which run through suitable slots. 10
3. Retirable linen spreading, according to the claim 1, characterized by the fact that arms are running, together with a fastening bolt, within a purposely made hollow slot included in the upper element which consents not only the translation movement but also a 270° rotation in the three working positions. 15 20
4. Retirable linen spreading, according to the claim 1, characterized by the fact that in closed position the arms are perfectly on the vertical middle line with reference to the anchorage, in inside opening position the arms are along the perpendicular axis, in outside opening position the arms being as above on the middle line, but with opposite direction. 25 30
5. Retirable linen spreading to the claim 1, characterized by the fact that every element, part or organ, is deprived of sharp angles for a better safety of the users, plus the stoppers made of shockproof material placed on the ends of the arms and abrasionproof bushing installed within holes for passing wires through. 35 40
6. Retirable linen spreading in every part suitable forged, as indicated in one or more of the above claims and in accordance with the descriptions and illustrations for the specified purposes. 45

50

55

FIGURE 1

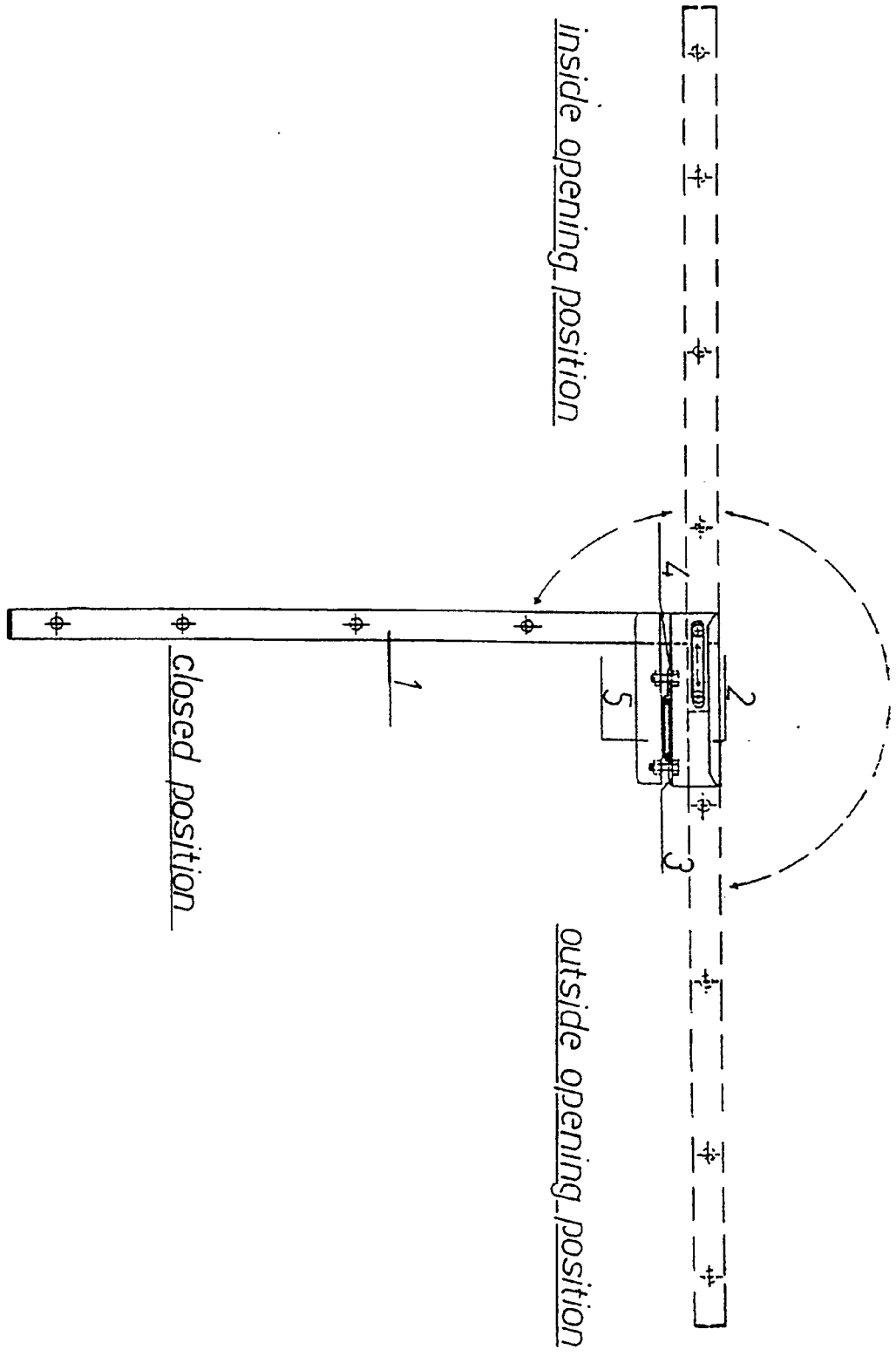
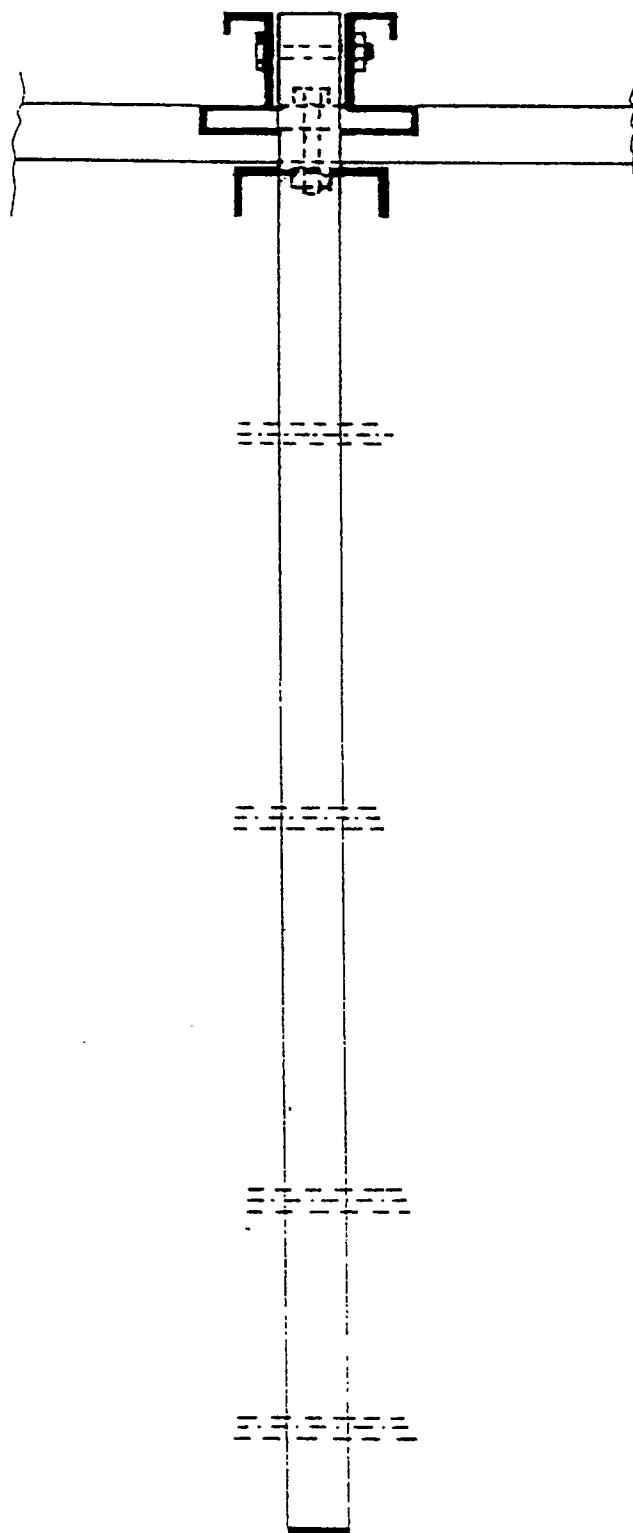


FIGURE 2



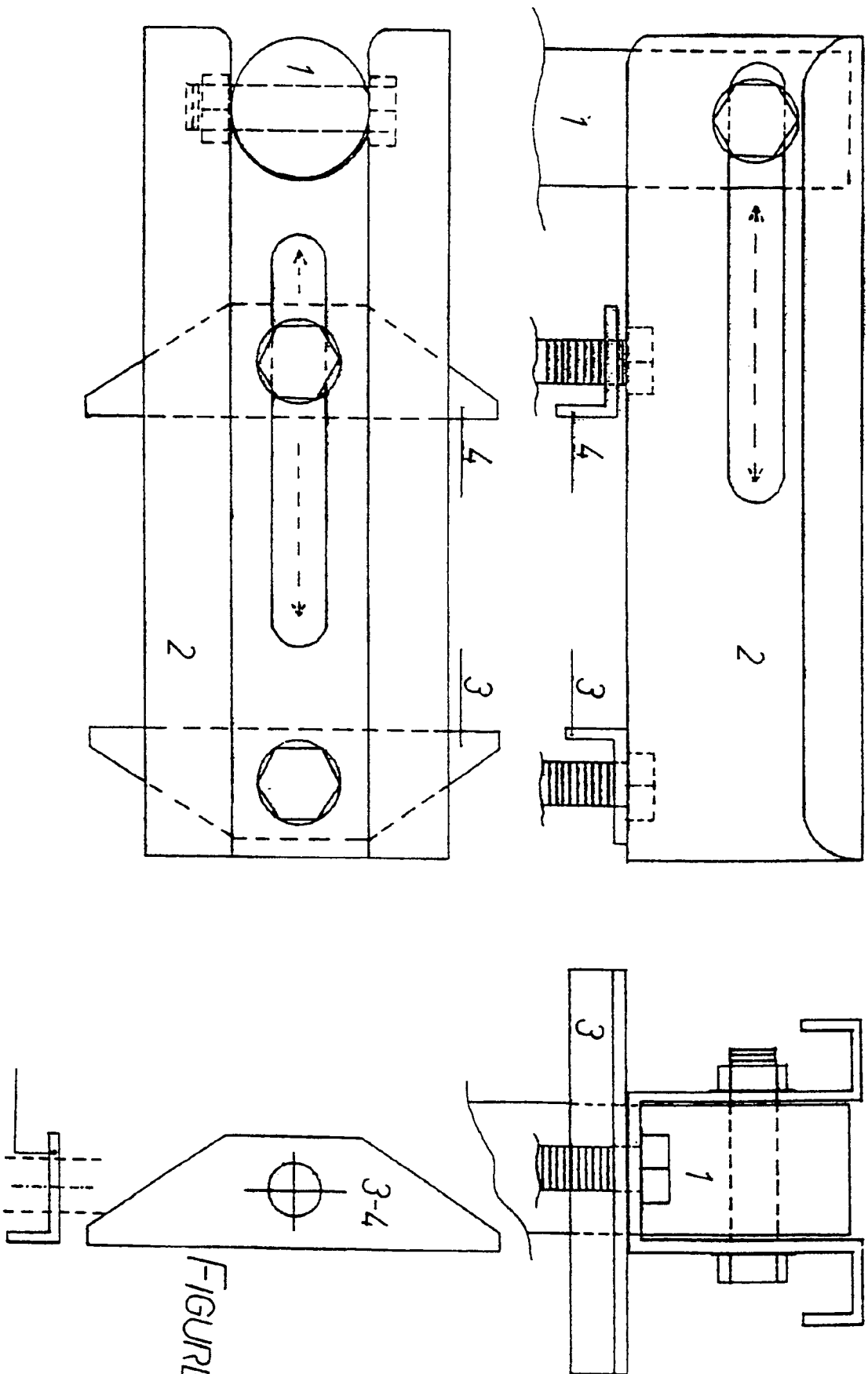


FIGURE 3

FIGURE 4

