IN THE INTELLECTUAL PROPERTY OFFICE OF SINGAPORE

Inventor : Krishna prasad Panduranga Revankar

Application No.: 11201500631X

For: DEVICE TO SHADE PERSONS FROM BRIGHT SUNSHINE DYNAMICALLY FROM LARGE HEIGHT BY MATCHING SHADE PATTERN TO PRESENCE

Examiner: Ms Umarani

RESPONSE TO OFFICE ACTION

Commissioner for Patents
Intellectual Property office of Singapore
SINGAPORE

Introductory Comments

Respected Commissioner:

In response to the written opinion mailed on 17th February 2016 please enter the following amendments and remarks into the file of the above-entitled application. Applicant submits, these amendments and remarks serve to clarify the present invention based on the suggestions of the Learned examiner.

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In the Specification:

Please add the following new paragraph which will serve to clarify the present invention.

[0001] Miscellaneous comments to add clarification on working of the device : The specification of material of the shading unit is one of plastics with an example plastic being poly ethylene and another example being Poly propylene in one embodiment

The drive for the cable spools as shown in Figure 12 can be provided directly by a stepper motor in another embodiment other than the one shown in figure 12 wherein the need for clutch is avoided .

In the place where the person to be shaded is present two reference points are marked to form a straight line on the ground to give an X axis . A third point is marked perpendicular to this straight line starting from the first point, to form a line which is Y axis . The perpendicular distance of the person to these lines gives the X and Y co ordinates which is calculated from the image captures by the cameras. The ground is divided into square areas as in a graph paper using the above X and Y axis lines which enables the computer to calculate the position of the person to be shaded. The grid map is in the image analyzed by the computer and is not needed to be present on the ground. A joy stick is used as a switching device to move the image of a pointer on the computer screen over the image of the ground where the person to be shaded is present and the location of the pointer is interpreted by the computer to calculate the next position needed for the shading unit that is shading the particular person so the shade keeps synchronized with movement of the person being shaded.

The cables used in the above device are made cables having different colors to enable correct connection to required spool when setting up the device.

In the Drawings:

Please find attached replacement sheets 4/10 , 6/10 and 9 /10 with corrections made as suggested by the learned examiner.

Amendments to the Claims:

16. (Currently amended) ~~The device as claimed in claim 1:~~ A method of using the device ~~Wherein person to be shaded~~ as claimed in claim1 to provide shade ~~also refers~~ to animals and objects to be protected from sun ~~and wherein shading device is used for shading and comfort of players in stadium~~, horses and animals in race course, shading recreating people on beach in hot climates and wherein the above method is used for shading construction workers in building by using one of cantilever support based shading unit on building, construction workers in roads and towers in sea rigs, ~~and~~ large ship platform, agriculture and farm workers on land.

Conclusion

In light of the foregoing remarks, the applicant kindly requests the learned examiner to provide an opportunity to make any other changes required with the help of a patent attorney which could not be taken in the current response due to receipt of the written opinion on three weeks back. I once again thank the learned examiner for the suggestions and comments.

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Yours Sincerely

P R Krishna Prasad

Date : 17-07-2016

(Krishna prasad Panduranga revankar)

Applicant Inventor