CLAIMS

1. A light modulating device, comprising:

a first support comprising a first photovoltaic cell on a surface and a first light-reflector on an opposing surface, and

a second support comprising a second photovoltaic cell on a surface and second light-reflector on an opposing surface,

wherein the first light-reflector and the second light-reflector are independently a mirror, a metallic coating, or bright anodized aluminium,

wherein the first support and the second support are pivotably coupled to each other along an edge portion of the respective support, and movable between a collapsed position in which the surfaces comprising the first photovoltaic cell and the second photovoltaic cell are opposed and inwardly facing and an extended position in which the surfaces comprising the first photovoltaic cell and the second photovoltaic cell lie substantially in the same plane, to modulate transmission of light.

2. The light modulating device according to claim 1, wherein the first support and the second support are pivotably coupled to each other along an edge portion of the respective support via one or more sets of two supports,

wherein each support of the one or more sets is pivotably coupled to another support of the one or more sets along an edge portion of the respective support to form a joined support, wherein opposing edge portions of the joined support are respectively pivotably coupled to the edge portion of the first support and the edge portion of the second support,

wherein each support of the one or more sets comprises a photovoltaic cell on a surface, wherein in the collapsed position, the surface of each support comprising the

photovoltaic cells is opposed and inwardly facing and in the extended position the surface of each support comprising the photovoltaic cells lies substantially in the same plane to the surfaces comprising the first photovoltaic cell and the second photovoltaic cell, to modulate transmission of light.

3. The light modulating device according to claim 1 or 2, wherein the supports are of substantially the same size.

4. The light modulating device according to any one of claims 1 to 3, wherein the surface comprising the photovoltaic cell is arranged to form an angle in the range of 0º to 180º to a neighbouring surface comprising the photovoltaic cell.

5. The light modulating device according to any one of claims 1 to 4, further comprising a motor operable to control movement of each support between the collapsed position and the extended position for light modulation.

6. The light modulating device according to any one of claims 1 to 5, further comprising a photo-detector operable to determine amount of photo flux present to derive settings for configuring the light modulating device.

7. The light modulating device according to any one of claims 1 to 6, wherein the photovoltaic cell is a solar cell.

8. An apparatus comprising the light modulating device according to any one of claims 1 to 7, wherein the apparatus is a window or a door.

9. A method of modulating light into a building using the light modulating device according to any one of claims 1 to 7, the method comprising positioning the light modulating device at a façade of the building which is adapted to allow light to pass through into the building.

10. The method according to claim 9, wherein the façade of the building is an opening, a window or a door.

11. The method according to claim 9 or 10, wherein the building is a greenhouse.