

Claims

1. System for displaying information, comprising:
 - an emission device arranged to emit light so as to display information to a user, the emission device being adapted to emit the light in a pulsed manner so that the intensity of the light varies between a high value and a low value,
 - a selective viewing device comprising a panel, the panel being adapted so that the user can view the light which is emitted by the emission device through that panel so as to visually perceive the information being displayed, the panel having a variable transparency which can be varied between a state of high transparency and a state of low transparency,
 - the system being adapted to synchronize the emission device and the selective viewing device so that the states of the emission device emitting light at a high-intensity value and the states of the panel of the selective viewing device of high transparency overlap in time,
 - the system further comprising a photoelectric conversion means arranged to convert ambient light into electric energy which is fed into the system.
2. System according to claim 1, further comprising an energy storage device (19) arranged to supply energy to drive the emission device, the energy produced by the photoelectric conversion means being used to store energy in the energy storage device.
3. System according to claim 2, wherein the energy storage device comprises at least a first and a second energy storage component, the system being arranged so that one of the first and the second energy storage components is charged whilst the respective other one supplies energy to the emission device, the system being arranged to swap the first and the second energy storage devices so that the respective energy

storage component which previously was charged is now used to supply energy to the emission device whilst the respective other energy storage component is charged.

4. System according to one of the preceding claims, the photoelectric conversion means comprising a solar cell having an area exposed to ambient light which falls within the range of from 50 cm² to 5000 cm², preferably 200 to 2000 cm², more preferably 400 to 1200 cm².

5. System according to one of the preceding claims, the emission device having a duty cycle of less than or equal to 1/20, preferably less than or equal to 1/100 and even more preferably less than or equal to 1/250, wherein the panel of the selective viewing device is configured to operate at essentially the same duty cycle.

6. System according to one of the preceding claims, wherein the emission device is arranged so that an ambient contrast ratio of larger than 1, preferably larger than 4, more preferably larger than 10 is reached.

7. System according to one of the preceding claims, the emission device being arranged so that the intensity at the low value is less than 20%, preferably less than 10% of the intensity of the high level intensity, wherein even more preferably, no light is emitted when the emission device is set to emit light at the low value of the intensity.

8. System according to one of the preceding claims, the system being arranged so that the power consumption of the emission device is less than the power production by the photoelectric conversion means, wherein it is preferably less than 90%, more preferably less than 70% and even more preferably less than 50% of the power production by the photoelectric conversion means.

9. Portable computer system comprising the system according to one of the preceding claims.

10. Portable computer system according to claim 9, the portable computer comprising a screen having a front side and a rear side, the front side comprising the emission device as the display area, the rear side of the screen comprising the photoelectric conversion means, wherein the photoelectric conversion means preferably covers more than 70% and more preferably between 90% to 100% of the area of the rear side of the screen.

11. Portable computer system according to claim 9, wherein the photoelectric conversion means is provided so as to fold out from the portable computer.

12. Portable computer system according to claim 9, wherein the photoelectric conversion means is a component which is separate from the remaining components of the portable computer system and wherein it can be separated from those components without the use of a tool.

13. System according to one of claims 1 to 8, the emission device being a laser projector and/or a video projector.

14. System according to one of claims 1 to 8, the emission device and the photoelectric conversion means being incorporated into a tablet computer.