CLAIMS

1. An image sensor, comprising:

a substrate;

a photoelectric conversion unit supported by said substrate;

a colour filter over said photoelectric conversion unit;

a sealing film over said colour filter, said sealing film being transparent to visible lights; and,

an air gap on a lateral side of said colour filter and under an interface of said sealing film, the interface being concave with respect to said sealing film.

2. The image sensor of claim 1, wherein the colour filter has at least a portion of lateral interface tilting towards the colour filter, said portion being an interface between said colour filter and a solid structure anchored from below.

3. A method for fabricating an image sensor, comprising:

forming a colour filter over a substrate and laterally adjacent to a wall;

removing a portion of the wall to form an air gap lateral to the colour filter; and

forming a sealing film over the air gap, the sealing film covering the air gap with a interface that is concave with respect to the sealing film.

4. The method of claim 3, further comprising:

opening a trench into a support film to form the wall.

5. The method of claim 3, wherein a portion of an interface between the colour filter and the wall tilts towards the colour filter.

6. An image sensor substantially as shown in or as described with respect to any of Figures 22 and 23.

7. A method for fabricating an image sensor substantially as described with respect to any of Figures 22 and 23.