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The young man's book of amusement

Halifax, 1848

The Solar Magic Latern

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enough to admit both strips freely into the groove of the lantern. On one of these glasses paint the appearance of sea from a smooth calm to a violent storm, (see Fig. 15.) Let these representations run gradually into each other, as in the figure; and you will of course observe, that the more natural and picturesque the painting is, the more natural will be the reflection.

On the other glass, (Fig. 16.) paint various vessels on the ocean, observing to let that end where the storm is, appear in a state of violent commotion, and the vessels as if raised on the waves in an unsettled position, with heavy clouds about them.

You then pass the glasses slowly through the groove and when you come to that part where the storm is supposed to begin, move them gently up and down, which will give the appearance of the sea and vessels being agitated; increase the motion till they come to the height of the storm. You will thus have a very natural representation of the sea and ships in a calm and storm; and as you gradually draw the glasses back, the tempest will subside, the sky appear clear, and the vessels glide gently over the waves.

By the means of two or three glasses, you may also represent a battle on land, or a naval engagement, with a variety of other pleasing experiments.

The Solar Magic Lantern.

Make a box, a foot high, eighteen inches wide, and
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about three inches deep. Two of the opposite sides of this box must be quite open, and in each of the other sides let there be a groove wide enough to admit a stiff paper or pasteboard. You fasten the box against a window on which the sun's rays fall direct. The rest of the window should be closed up, that no light may enter.

Next provide several sheets of stiff paper, blacked on one side. On these papers cut out such figures as your fancy may dictate; place them alternately in the grooves of the box, with their black sides towards you, and look at them through a large and clear glass prism: and if the light be strong, they will appear painted with the most lively colours. If you cut on one of these papers the form of a rainbow, about three quarters of an inch wide, you will have a very good representation of the natural one.

For greater convenience, the prism may be placed on a stand on the table, made to turn round on an axis.

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*To produce the appearance of a Spectre on a
Pedestal in the middle of a Table.*

Enclose a small magic lantern in a box, (see Fig. 17) large enough to contain a small swing dressing-glass, which will reflect the light thrown upon it by the lantern in such a way, that it will pass out at the aperture made at the top of the box, which aperture should be oval, and of a size adapted to the cone of light to pass through it. There should be a flap with