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**The young man's book of amusement**

**Halifax, 1848**

The Magnifying Reflector

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inward to the form of part of a circle, whose diameter is equal to double the focal distance of the glass. Fix it on a frame of the same figure, and put it on a moveable foot, that it may be easily placed at that distance from the glass, where the objects appear to the greatest perfection. When it is thus placed, all the objects in front of the window will be painted on the paper in an inverted position, with the greatest regularity, and in the most natural colours. If you place a swing looking glass outside the window, by turning it more or less, you will have on the paper all the objects on each side the window.

If, instead of placing the looking-glass outside the window, you place it in the room above the hole, (which must then be made near the top of the shutter) you may have the representation on a paper placed horizontally on a table, and draw at your leisure all the objects reflected.

Observe, the best situation is directly north ; and the best time of day is noon.

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#### *The Magnifying Reflector.*

Let the rays of light that pass through the magnifying glass in the shutter be thrown on a large concave mirror, properly fixed in a frame. Then take a thin strip of glass, and stick any small object on it ; hold it in the intervening rays at a little more than the focal distance from the mirror, and you will see on the opposite wall, amidst the reflecting rays, the

image of that object, very large, and beautifully clear and bright.

*To separate two Liquors which have been mixed together.*

If you wish to separate, for example, water from oil with which it has been mixed, take a bit of cloth or sponge, well moistened in water, and place it, immersing it by one end, in the vessel containing the liquors to be separated; the other end must be made to pass over the edge of the vessel, and to hang down much lower than the liquor: this end will soon begin to drop, and in this manner will attract and separate all the water mixed with oil. If it be required to draw off the oil, the rag or sponge must be first immersed in that liquid.

*To tell by a Watch Dial, the Hour when a Person intends to rise.*

The person is told to set the hand of his watch at any hour he pleases, which hour he tells you; and you add in your mind 12 to it. You then desire him to count privately the number of that addition on the dial, commencing at the next hour to that which he intends to rise, and including the hour at which he has placed the hand; which will give the answer: for example:

A intends to r  
to places the ha  
own mind, add  
tells A. to count  
hour to that at  
be 7, and count  
as 1, and includ  
hour the hand i  
which is the ho  
The hour the  
The next ho  
is 7, which e  
Count back t  
at 1 each, there  
11, 10, 9, 8, 7, 6

The most con  
is that from whol  
that the chimeste  
may be made to  
this property, pe  
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when once they  
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nitric-acid, till