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

**Halifax, 1848**

Effect of the Air respired from the Lungs

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*A Fountain to play by the pressure of Air.*

To produce a fountain in vacuo, it is merely necessary to exhaust a glass receiver by means of the air-pump, and when that is effected, to place the lower end of the stop cock in a basin of water, which will be driven up in a continuous jet by the pressure of the air. The apparatus is represented at Fig. 18.

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*Effect of the Air respired from the Lungs.*

Half fill a wine glass with fresh prepared lime water or barytic water, and breathe into the fluid for a few minutes, by means of a tobacco pipe or glass tube, air from the lungs. The lime water will speedily become turbid, and a white precipitate fall to the bottom of the glass.

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*The Exploded Bladder.*

Take a glass pipe open at both ends, to one of which tie fast a wet bladder, and let it dry. Then place it on the plate of the pump. While the air presses the bladder equally on both sides, it will lie even and straight; but as soon as the air is exhausted, the bladder will become more stretched; it will soon yield to the incumbent pressure, and burst with a loud