

Badische Landesbibliothek Karlsruhe

Digitale Sammlung der Badischen Landesbibliothek Karlsruhe

The young man's book of amusement

Halifax, 1848

Vegetable Air Bubbles

[urn:nbn:de:bsz:31-100120](https://nbn-resolving.org/urn:nbn:de:bsz:31-100120)

haust the air. Let there be a small pipe with a cock ; one end of the pipe to be outside the top of the receiver, and the other to come directly over the vanes of the wheel.

When the air is exhausted, turn the cock, and a current will rush against the vanes of the wheel, and set it in motion, which will increase, till the receiver is filled with air.

The Artificial Halo.

Place a candle on one side of a receiver, and let the spectator place himself at a distance from the other side. Directly the air begins to be exhausted, the light of the candle will be refracted in circles of various colours.

Vegetable Air Bubbles.

Put a small branch of a tree with its leaves, or part of a small plant, in a vessel of water, and placing the vessel in the receiver exhaust the air. When the pressure of the external air is taken off, the spring of that contained in the air vessels of the plant, by expanding the particles, will make them rise from the orifices of all the vessels for a long time together, and produce a most beautiful appearance.

A Four

To produ
sary to exh
pump, and
end of the
be driven
the air. T

Effect

Half fill
ter or bary
few minute
tube, air fro
become tur
bottom of t

Take a g
which tie
place it on
presses the
even and str
the bladder
yield to the in

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.

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.

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