

Badische Landesbibliothek Karlsruhe

Digitale Sammlung der Badischen Landesbibliothek Karlsruhe

The young man's book of amusement

Halifax, 1848

Cheap Hydrometer

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

The Enchanted Bottle.

Fill a glass bottle with water to the beginning of the neck ; leave the neck empty and cork it. Suspend this bottle opposite a concave mirror, and beyond its focus, that it may appear reversed. Place yourself still further distant from the bottle ; and instead of the water appearing, as it really is, at the bottom of the bottle, the bottom will be empty, and the water seen at the top.

If the bottle be suspended with the neck downwards, it will be reflected in its natural position; and the water at the bottom, although in reality, it is inverted, and fills the neck, leaving the bottom vacant. While the bottle is in this position, uncork it, and let the water run gradually out ; it will appear, that while the real bottle is emptying, the reflected one is filling. Care must be taken that the bottle is not more than half or three parts full, and that no other liquid is used but water, as in either of these cases the illusion ceases.

Cheap Hydrometer.

A very ingenious apparatus of this kind, may be made to consist of a short piece of cord, or cat-gut, from four to ten inches, suspended by a hook over a horizontal board ; to the lower end of the cord is fixed a horizontal index, having a circular graduated scale on the board. As the cord attracts moisture, or the contrary, it twists or untwists, and thereby turns

the index. On
weather house
supports a s
that of a w
out in wet w

P
Take a co
so that bot
these ends
each hand,
ears close,
any body,
musical ins
deepest and

The follo
mode of co
Take a v
or other
let it be eq
end of the
sponge bec
the sponge
contrived t

the index. On this principle, the Dutch toys, called weather houses, are made; one end of the index supports a small image of a man, and the other that of a woman; the former appears, or is brought out in wet weather, and the latter in fair weather.

Powerful Musical Instrument.

Take a common poker, and tie a tape on it at top, so that both ends of the tape are left at liberty; these ends must be rolled round the first finger of each hand, and then with these fingers stopping the ears close, strike the poker thus suspended against any body. The depth of the tone which this odd musical instrument returns will be amazing. The deepest and largest bell will not equal it.

Another Cheap Hydrometer

The following is the most lasting and convenient mode of constructing an instrument of this kind.

Take a very nice balance, and place in it a sponge or other body, which easily imbibes moisture, and let it be equalibrio, with a weight hung at the other end of the beam. Now, if the air become moist, the sponge becoming heavier will preponderate; if dry, the sponge will be raised up. The balance may be contrived two ways; by either having the pin in the