# HALLADAY'S
# NEW WIND ENGINE,

PATENTED AUGUST 29, 1854.

The undersigned would respectfully invite the attention of the public to

## HALLADAY'S NEW WIND ENGINE OR WIND MILL,.

which is being rapidly introduced into all parts of the country where its merits are known.

Many of the most scientific, able and experienced Mechanics and Engineers in the United States have examined this Machine, and pronounced it one of the most beautiful, useful, and novel inventions of modern date, and just what the civilized world have looked for many centuries.

It is made in the most thorough and durable manner, mostly of cast and wrought iron. The iron frames for the fans or wings are covered with thin boards or sail-cloth, according to the size of the Machine.

By a simple, yet ingenious device, as the gale increases in severity, the wings gradually turn around, change the angle at which they were set for a gentle breeze, present less and less resistance to the wind, till finally when the tempest is raging at its height, little is presented to its power save their thin edges. As the fury of the gale abates, the fans gradually resume their original position.

The speed of the Wind Wheel is not increased by a powerful storm of wind, for it is as fully under the control of the regulator as the Water Wheel or Steam Engine. If this Mill is well put up, it will require no care or attention whatever for weeks together.

The only reason why the wind for ages past has not been universally used as a motive power is well known to be the want of a *self-regulating* machine. In heavy gales, the wind wheel as heretofore constructed, was either prostrated in hopeless ruin or revolved with such rapidity as to wear, heat and chafe, greatly injuring any kind of gearing attached, besides in bad weather requiring the constant care and anxiety of the owner. This difficulty is now entirely obviated and the only objection that can possibly be urged is the inconsistency of the wind. To this objection we offer the following considerations:—It requires no outlay or expense to run the Wind Engine, no men to tend or fuel to feed it, as with steam power.

The Mill is ready at any time, day or night, to be moved by the wind from any point of the compass, which will fill large tanks or ponds that can be used during the intervals of the winds blowing; so if the size of the Mill, the pumps and reservoir are in proportion to the quantity of water required, there is a certainty of having an abundance through the year, for Railroad Stations, farm yards, fish and duck ponds, irrigation, &c.

We intend soon to construct mills with gearing attached, which we doubt not will be extensively used by farmers throughout the country as a labor-saving machine: not only to drain and irrigate land, water their stock, beautify the yards about their houses with beautiful fish ponds and fountains, but thresh and grind grain, saw wood. churn, turn grindstones, cut hay, shell corn, &c., thus adding much to the great agricultural interests of the world. Mechanics who do not require a constant power, can use, by this new invention, the wind as a great labor-saving agent.

We suggest to those using large quantities of water, that where it is practicable, $8 will build a pond or reservoir, by excavating the earth in a pond shape, and covering it with a thin coat of water cement, holding as much water as a wooden tank that would cost $100, and will outlast it besides.

These Mills were awarded the *highest premium*, (a Silver Medal together with a Diploma,) at the late State Fair, held at Philadelphia, Penn.

Full directions for setting up will accompany each Mill sent abroad, so that any practical Mechanic can readily put one in successful operation.

Price of Mills from $100 to $300.

Fig. 1

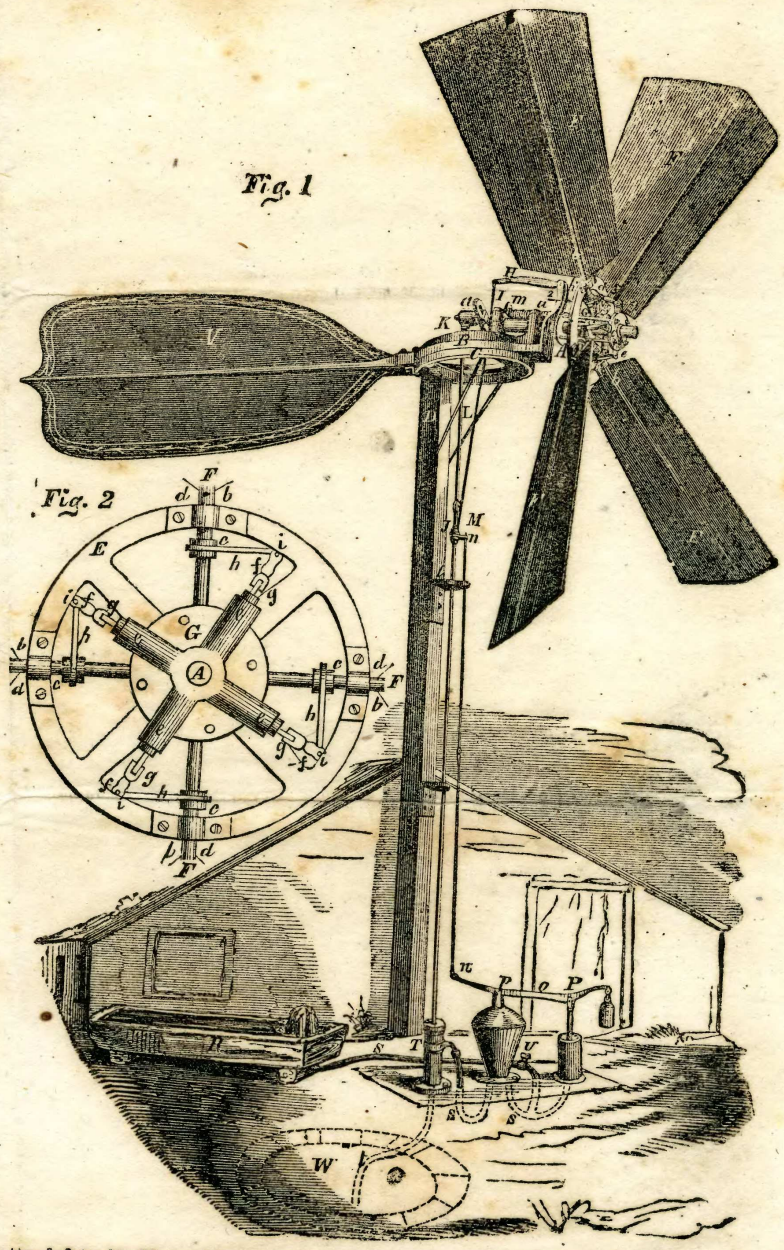

Fig. 2



All orders or letters, for further information will be promptly attended to, if addressed to

**WM. R. PEASE, Manufacturer,**
**New Brunswick, N. J.**

P. S.—Also, various kinds of Suction and Force Pumps, and Hydraulic Rams, Block Tin and Lead Pipes, of every description, &c. &c.

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