

**THE EXCELSIOR WIND-MILL.**

Was awarded the First, or Cash Premium, at the State Fair at Sacramento, in 1872—the only time ever exhibited there.

We have been awarded a larger number of Premiums at the Mechanics' Institute Fairs, held in San Francisco, than any other wind-mill manufacturers in the State, having never failed to receive a premium, when exhibiting.

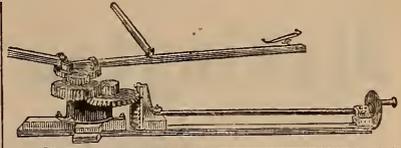
We are the inventors of the Single Cross-vane Windmill. The increasing popularity of this mill has induced several parties to make an imitation, and in some cases to make use of its name—"EXCELSIOR." For this reason we have caused it to be registered in the U. S. Patent Office as our *Trade Mark* for the Cross-vane Mill. And we hereby caution all persons against using said name on wind-mills.

The "EXCELSIOR" is both adjustable and self-regulating, is very substantially made, and with reasonable care will last, with constant usage, for twenty or more years.

On account of the simplicity of their construction, they are very easily erected and put into operation by persons who are not mechanics. A boy ten years old can manage them when once erected.

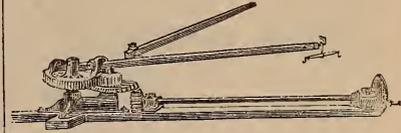
They are made in twelve sizes—from 12 feet to 40 feet diameter of wheel. A larger stock and assortment constantly on hand than can be found elsewhere in the State.

[See also page 190.]



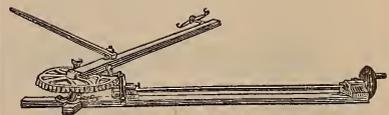
**LITTLE GIANT**

Heavy Two-Horse or Light Four-Horse  
TRIPLE-GEARED.



**EXCELSIOR**

Heavy One-Horse or Light Two-Horse  
DOUBLE-GEARED.



**ONE-HORSE POWER**

SINGLE-GEARED.

**HORSE-POWERS.**

These machines are complete in every detail, and possess every improvement and advantage that can be combined in sweep horse-powers.

They have an advantage over any other power in this market, viz., our application of the patent rubber *draw-spring*, which prevents, absolutely, any breakage of the gearing from any jump, sudden start, or movement of the horse; and also, when used for driving a pump, materially lessens the jerking motion caused by the changing of the stroke of the piston.

We use external gearing wholly in these machines. It is much more commonly used, not only on horse-powers, but on nearly all kinds of geared machinery, for the reason that it works much better in all cases where internal gearing can be dispensed with.

These powers have dust-proof and self-oiling journals. They are simple, strong, durable, and cheap. We have succeeded in making them superior to those which have been brought here from the East, consequently, in stopping their importation.

We furnish with these powers, when desired, any style or weight of balance-wheels or belt-wheels, combined with a movable crank-pin and counterbalance for pumping, etc.

**ATWOOD & BODWELL,**

PROPRIETORS.