

WEST'S IMPROVED PUMP
ANTI-FREEZING, DOUBLE-ACTING,
FORCING AND LIFTING.

These Pumps have now been in general use a number of years, and give better satisfaction than any other, and are recommended as **THE BEST!**

By Capt. Ericsson, and other eminent Engineers. We can refer to thousands using them, and guarantee that all will recommend them. They are more simple in construction, and work easier, and cost less than all others.

"Our readers will find the double acting improved Pump of J. D. West & Co., one of the best in the market. It is very simple, works to a charm, so that any child may use it, though a steady continuous stream, and does not freeze in the coldest exposures, and is unusually cheap. We say this knowingly, and give the testimony of our own accord, without the knowledge or request of the proprietors."—*N. Y. Evening Post, July 1st, 1863.*

This may certify that I have been using, at my manufactory, for the last four years, West's Improved Pumps. I now have in use three of said pumps, one of which is kept constantly at work, 24 hours each day (except Sundays) and pronounce them, in every respect, the best pumps that have been brought to my notice, having used many others previously. They are simple in their construction, and not easily disarranged.

James A. Wynn—
New York, Oct. 4th, 1859.

J. D. West & Co.:—We are pleased to state that the Pumps we had of you, about a year ago, have been in constant use, 12 hours each day, and raise for the use of our Woolen-Factory, about 130 gallons per minute. They work with but little power, compared with pumps we have used before, and do not get out of repair, are satisfactory in all respects. Yours, &c.,
DUNLAP MANUFACTURING COMPANY.

Solon Robinson to the Farmers Club, Jan. 20:—
"No farmer who owns a well or cistern can possibly afford to be without an iron pump. It should be at once a suction and force pump—a perfect little fire engine—such a one known as 'West's Improved Pump.' I speak of this pump because I happen to know it to be very simple, durable, powerful and cheap, and it doesn't freeze up, nor get out of order once a year. I know this, and think I may be doing the farmers good by speaking of it. A day or two ago, I saw one of your pumps at work, and it was doing its quarter stream. It can be made to work in deep wells as well as in shallow ones."

From the New York Observer.

"We have had it in use for months past, one of West's Pumps, which has given us more satisfaction as a force and lifting pump than any we have ever used. It is one of great power, and well adapted for ship's decks, mines, factories, greenhouses, granaries, &c., &c." The Mining Chronicle and Railway Journal says:

"It is recommended for its extreme simplicity of construction, great strength, and consequent durability and cheapness of repair. There is no stuffing box—the pressure being held by a cup packing, like that used upon the working piston, working in a cylinder, fitted for the purpose within the upper air chamber—which we think a great improvement, as stuffing is so liable to be deranged, and leak under strong pressure, to any nothing of the loss by friction incident thereto. It has also two air chambers; thus the action of the valve is cushioned upon both sides by air—preventing water hammer, and securing the valves are very accessible, and simply and cheaply repaired. They work much easier than any pump we have ever seen; the 4-inch cylinder being worked by children in wells 100 feet deep, and they are extremely cheap as well as simple and strong, we freely recommend them."

Gr. Neck L. I., 1860.

"I have used this pump for one summer and winter, exposed to the North West wind coming over Long Island sound, being the coldest possible exposure, and at no time did it freeze, nor were we unable at any time to pump water with great ease."

H. B. McILVAIN.

The undersigned, having to use West's Improved Pumps, cheerfully recommend them as simple, durable and powerful in raising and throwing water, and for their ease of action, security against frost, and low price, we believe them superior to all others.

WARREN LEZARD, Mgt. Hotel, New York.
J. W. POMEROY, Yonkers, N. Y.
Jno. MESSERLY, N. Y.
Dominick LAWRENCE, Westchester.

Cambridge, Mass., N. C., June 15, 1863.

J. D. West & Co.:—The pump which I ordered for our Mine is received and put to work in our underlay shaft, which we are sinking. We find that one man will with ease lift 50 gallons per minute. We lifted in three and a half hours all the water in the shaft, which measures seven by twelve feet and 30 feet deep, and it was full when we commenced. It answers our expectations in every respect, and our workmen are highly pleased with it. It will do great service with but trifling expense for repairs.

Yours, respectfully,
BURR HIGGINS.

We have plenty more such certificates than these are enough. For Pumps, Pipe &c., address or call upon
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Great Improvements in Sewing Machine.

EMPIRE SHUTTLE MACHINE

Patented, February 14th, 1860.

SALESROOM 454 BROADWAY

This Machine is constructed on entirely new principles of mechanism, possessing many rare and valuable improvements, having been examined by the most profound experts and pronounced to be of **SIMPLICITY AND PERFECTION COMBINED.**

The following are the principal objections urged against Sewing machines:

- 1.—Excessive fatigue to the operator.
- 2.—Liability to get out of order.
- 3.—Expense, trouble and loss of time in repairing.
- 4.—Incapacity to sew every description of material.
- 5.—Disagreeable noise while in operation.

The Empire Sewing Machine is Exempt all these objections.

It has a straight needle perpendicular action, makes the Lock or Shuttle Stitch, which will neither Rip nor ravel, and is alike on both sides; performs perfect sewing on every description of material, from Leather to the finest Nanook Ruslin, with cotton, linen or silk thread, from the coarsest to the finest name.

Having neither CAM nor COG WHEEL, and the least possible friction, it runs as smooth as glass, and is **EMPHATICALLY A NOISELESS MACHINE.**

It requires FIFTY PER CENT less power to drive it than any other machine in the market. A girl twelve years old can work it steadily, without fatigue or injury to health.

Its strength and WONDERFUL SIMPLICITY of construction render it almost impossible to get out of order, and is GUARANTEED by the company to give entire satisfaction.

We respectfully invite all those who may desire to supply themselves with a superior article, to call and examine this UNRIVALLED MACHINE.

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EMPIRE SHUTTLE MACHINE

Patented, February 14th, 1860.

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This Machine is constructed on entirely new principles of mechanism, possessing many rare and valuable improvements, having been examined by the most profound experts and pronounced to be of **SIMPLICITY AND PERFECTION COMBINED.**

The following are the principal objections urged against Sewing machines:

- 1.—Excessive fatigue to the operator.
- 2.—Liability to get out of order.
- 3.—Expense, trouble and loss of time in repairing.
- 4.—Incapacity to sew every description of material.
- 5.—Disagreeable noise while in operation.

The Empire Sewing Machine is Exempt all these objections.

It has a straight needle perpendicular action, makes the Lock or Shuttle Stitch, which will neither Rip nor ravel, and is alike on both sides; performs perfect sewing on every description of material, from Leather to the finest Nanook Ruslin, with cotton, linen or silk thread, from the coarsest to the finest name.

Having neither CAM nor COG WHEEL, and the least possible friction, it runs as smooth as glass, and is **EMPHATICALLY A NOISELESS MACHINE.**

It requires FIFTY PER CENT less power to drive it than any other machine in the market. A girl twelve years old can work it steadily, without fatigue or injury to health.

Its strength and WONDERFUL SIMPLICITY of construction render it almost impossible to get out of order, and is GUARANTEED by the company to give entire satisfaction.

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