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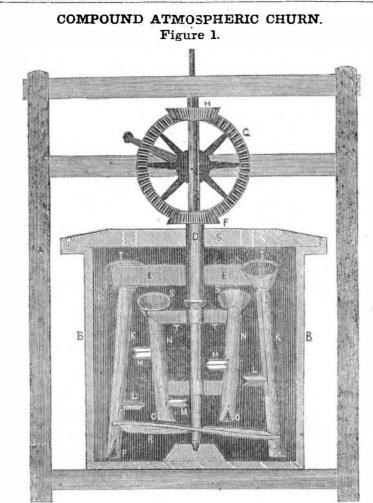
# Poetry.

LABOR. BY OWEN G. WARREN. It was no curse that said to Man, " Labor thy lot shall be ; And with the sweat upon thy brow Thy hand shall nourish thee." All who obey this high benest Blessings in it have found ; And health and wealth are gathered best By those who till the ground. The human frame is scarcely made Till toil develop form ; And health which is not won by work Will hardly bide the storm. Or hand or brain, with plough or pen, May do God's will below; But sloth will wither hand and brain, And quench the spirit's glow. Say not, thou lordly son of gold, No need for thee to toil; Say not there's nought to do, except By serfs wed to the soil. Are there not widowed hearts to cheer, That pine in cold neglect; And innocence to guide and guard, And orphans to protect ? Are there not godlike intellects Now crushed in slavish fear, Thy hand, thy voice, thy pen could raise To state of angels here? Are there not shackled limbs to free-Wild passions to reclaim-Wild deserts and their wilder men Than wildest beasts to tame ? A jarring and discordant world To harmonize and bind Together firm with iron bands, 'Till all be of one mind ? Are there not fiends in human shape, That, from the throne of Power, Watch, aye, lest widowed Liberty Reclaim her long lost dower ? Is not the task yet to be done To banish Crime from earth, By guiding and directing right, Man from his very birth-To scatter Art and Science wide, And thus prepare the way For that Millennium to come, When Love and Truth shall sway ? Is there not haggard, starving Want, That feeds itself with Crime; nd dread Miasm in foul abode That kills men ere their time ? Are there not wrongs that every day The rich heap on the poor; Who toil and starve that heartless men May swell their golden store ?

Then say not, there is nought to do-Labor-'tis Heaven's command, Each in his sphere, and soon there were No sorrow in the land.

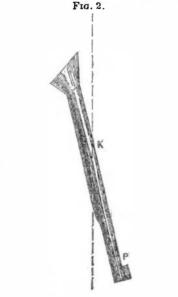
- Without that toil none can be great-Without it none is good,
- Or ever blameless and forgiven Before their Maker stood.

# New Pork, December 2, 1848.



This is a very simple and good invention of a Churn, invented by Alvah Graves and L. M. Whitman, and is now the property of Mr. S. G. Wise, of Weedsport, Cayuga Co. N. Y. and if butter is wanted to be made in a hurry, this is just the Churn that can do it.

Fig. 1 is an elevated section, exhibiting the interior arrangement and the other figure is a section part, to render the description more plain, the same letters of reference indicating the parts that are alike. A, is the frame in which the churn is placed, being simply any kind of bed plate, with two uprights and a cross beam for the driving shaft to revolve in a proper journal box. B B, is the churn-or rather the case or vessel for holding the milk or create to be churned. It is of a circular form and may be made of wood or tin. It will



be proper to explain the nature of this invention-so that the parts of the interior will be easier understood when we refer to them by letters. The nature of it consists in having two revolving sets of hollow arms on one shaft in the inside of thechurn, revolving con-

the upper part of the churn to the bottom and middle ot the cream to be churned, through the arms as they revolve. The vertical shaft passes down through the middle of the churn and revolves in bearings, one in the bottom and the other in the cross beam at the top. On this shaft are permanently fixed the small inside revolving set of arms N N. These arms are hollow tubes having cowl or funnel shaped tops S S. O O, are the bottom openings with angular vertical slits. M M, are bevelled paddles on the arms, and T T, is a cross piece (one at top and one at bottom) which unites the two arms together. When the main shaft revolves these arms revolve along with it. K K, are another set of hollow arms formed exactly like the small inside set. II, are the cowls or funnel mouths. P P, the angular bottom openings, and L L, the bevelled paddles. These large hollow arms are formed as represented in the section view .-They are not attached to the vertical shaft but to a collar D, through which the vertical shaft passes. E E, is the top piece which unites I I to the collar, and R is the bottom strap for the same purpose, only the bottom piece is formed like the flukes of a propeller. G. is a large bevel wheel to be driven by a crank by hand, or by band and pulley for a large dairy. H, is a bevel pinion on the vertical shaft, and F a bevel pinion fixed on or forming part of the collar D. The collar, it will be observed, rests and revolves on the top of a friction block which is fixed on the vertical shaft, and R has an opening in the middle so as to allow it to revolve loose around the shaft.

OPERATION .--- When the wheel G is set in motion, it will be observed that H and F, will revolve horizontally in a contrary direction, ( therefore the arms will revolve in a contrary direction to one another, and certainly there of unremitting toil by the City Fire Departcould be no better mechanical arrangement to agitate the cream, while in connexion with the mechanical agitation, the air 18, as it were continually downwards while the arms are I trary to one another, and conveying air from | revolving, and forced out at the lower open. the best antidote to cholera ever discovered.

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ings among the cream, thus combining a thorough mechanical and atmospherical agitation of the milk or cream to separate the butter from the other ingredients of which the milk is composed.

## RAIL ROAD NEWS.

A Good Arrangement. The Utica and Schenectady and the Mohawk and Hudson Railroad Companies have made arrangements whereby one sett of officers and engineers, &c. with the locomotives and cars shall run the whole route. This will effect a saving and is a good arrangement. Other coatinuous lines throughout the country would do well to take the hint.

It is reported that a new company has been organized under the General Railroad Act, for the purpose of building a direct road from Syracuse to Rochester. Two routes have been surveyed, one known as the Canal route, and the other as the Bridge route. Both are favorable, and that line will be adopted, upon which the company is treated with the most liberality.

## To Raliroad Proprietors,

The Philadelphia Ledger publishes the following notice :-

As the use of wood on Railroads is very expensive, and subject to great disadvantages in regard to its conveyance from place to place, and the frequentattention which it requires, the use of coal would be a great advantage, and an immense saving. Therefore, after long consideration of this subject, I have found that by suspending the furnace on single or double suspenders, the jarring or shaking of the locomotive would be effectually precluded. And thus coal might be used with as much facility as it is now used in common house stoves. H. E. MAHN.

### Rome and Oswego Plank Road.

We learn from the Rome Sentinel, that the Directors of the Rome and Oswego Plank Road have declared a semi-annual dividend of 6 per cent. for the last six months. About one third of the tolls have been invested as a sinking fund, thus making the earnings of the road during the half year, about 9 per cent on its" capital. The cost of the road was about \$85,-000.

#### A Misdirected Tunnel.

The London Builder states that in a railway tunnel in the course of construction near Huddersfield, which had been bored at each end, thinking that the excavators would meet in the centre, it has been discovered that through defective engineering the two sets of workmen were passing each other, having got six yards asunder, instead of meeting face to face. The tunnel will be about seven-eights of a mile in length, and while it should have consisted of a gentle curve, it now takes the shape of a dog's hind leg !

They were probably led astray by deflection of the magnet.

#### Spontaneous Combustion.

At the City Gas Works at Philadelphia, vaults had been constructed for the bituminous coal used in making the gas and into which the coal was packed very close for the saving of room. A few weeks since spontaneous combustion was observed in these vaults but it was put out (supposed) with but little trouble. Last Saturday week, however, the fire burst out again and was not subdued without a great loss of coal, after several hours ment.

If equal quantities of laudanum, tincture gathered into the funnels and by its elastic na- of rhubarb and tincture of camphor are mixed ture, whirled round in the form of a screw together, and eighteen drops mixed with water be taken every two hours, it is said to be



The Fair of the American Institute. No. 8.

PREMIUMS AWARDED.

SILVER MEDALS. Callahan & Wilson, Albany, for a Cooking Stove.

Mrs. C. Van Epps, Ovid, N. Y. for best Silk Cocoons

S. O, Loomis, Windsor, Conn. for best Sew. ing Silk.

New York Dying Establishment, 45 John-st. for best Silk Twist.

Court & Dechaux, 579 Greenwich-st. for best Silk Dying. J. H. Wood, Poughkeepsie, N. Y. for best

Sleigh.

Ceo. D. Underhill, 162 Mercer-st. for Light Wagon.

Henry J. Kip, Newark, N. J. for Farm Wagon

E. Davis, Jersey City, for Dirt Cart Wands & Tremere, 210 Water-st. for 2d

best Cooking Stove with Boiling Apparatus attached. Lecount & Ward, 165 Chrystie-st. for Cart.

James N. Jerolaman, Newark. N. J. for best Coach Axles.

Harrison & Breese, Newark, for best Mail Axles.

Jones, White & Co. N. Y. for best Artificial Teeth.

J. B. Richards, 43 Eldridge-st. for workmanship on House's Magnetic Telegraph. J. Atwood, 183 Broadway. for Elliptical

Compase. Benjamin. Pike. Jr. 294 Broadway, for Air

Pump. Gregg & Rupp,'120 Water-st. for Nautical and Surveying Instruments.

W. W. Rose, 19 Wall-st. for the best Blank Books.

J. C. Koch, 183 William-st. for best Book-Binding.

Platner & Smith, Lee, Mass. for best Letter Paper.

John Campbell & Co. 110 Nassau-st., for Hardware Paper'made from Manilla Grass. Richard Smith, 327 Stanton-st. for Parch-

ment and Vellum. Nathaniel Fean, 374 Bleecker-st. for Fam-

ily and Fancy Bellows. Waterbury Brass Co. Waterbury, Ct. for

Brass Kettles. John Morrow, Paterson, N. J. for Printers'

Blankets & Papermakers' Felts. E. B. Force, Red Mills, N. J. for Printers' Blankets.

Z. M. Quimby, 302 Broadway, for best Shell Combs.

C. Coles, 187 Broadway, for best Morocco Cases.

B. J. Williams, Philad'a, for Fancy narrow slat Venetian Window Blinds.

W. E. Bose, 300 Broadway, for Gold and Silver Mounted Cases. John Bruce, 24 Platt-st. for Steel and Cop-

per Plates. W. D. Smith & Son, 1 Ann-st. for prepared

Oil-Stone. sult. Isaac Edge, jr. Jersey City, for best display

of Fireworks. Silver Cup, \$15. John W. Hardfield, Williamsburg, for 2d

best display of Fireworks. Do. \$10.

J. Gurney, 189 Broadway, for best Daguer reotype Likenesses. J. & J. C. Conroy, 54 Fulton-st. for hes

Fishing Tackle of all kinds. A. W. Metcalf, 63 and 65 Centre-st, for very

superior Brass Cocks. Bruno & Clinchard, 53 Mechanic-st. New-

ark, N. J. for superior Files. Reeford Glass Co, Clinton Co. N. Y. for

Crown Window Glass. H. P. & W. C. Taylor, Pbila. for best Trans-

parent and Fancy Soaps. Wm. Blake, Akron, Ohio, for best Fire and

Water Proof Paint. Smith & Curlett, Balt Md.-John P. Veeder, Agent, 88 Fourth-st .- tor best adamantine Candles.

Tripoil for Pollshing.

Of all the substances which have been applied to polish glass and metal none can equal that substance known by the name of Tripoli. It is a natural production, and was first brought from Africa to Italy by the Venetians and used by them in their palmy days of glass making, to give it that peculiar polish so much admired by other nations. Under the name of Italian Tripoli, its reputation has become world wide. But the same substance and a superior article to the imported Italian was discovered about a year ago, we believe, near Saco in Maine. The bed discovered is very narrow, but of rare quality and from what we know of it, we are positive that no other substance can equal it for the purposes we have stated. It should be in every family and in every workshop. We believe that its qualities are not generally known and we take this opportunity to speak of its merits, believing that many of our readers and others will be glad of the information.

The Manufacturing Agent of the Mount Eagle Tripoli Company, is Geo. N. Cheever, No. 21 Dock Square, Boston. The powder is put up in neat packages with full directions how to use it. Its price is from 10 to 15 cents per package and every person who bas steel, iron, brass, or a reflector to polish up, should never have a package far from their elbows.

#### Singular Circumstance.

There resides in Delaware, some few miles from Templesville, Md., in Queen Ann county, a respectable farmer, having a daughter, now about eleves years oid, who, until attaining her fifth year, labored under an impediment of speech, which was thought incurable. At that time, for some trifling indiscretion, her mother spoke quickly and sharply to her and boxed her ears; singular to relate from that moment, for four months, the child never uttered a word. At the expiration of that time however, when the afflicted mother had become almost frantic at her supposed instrumentality in depriving her child even of her impaired speech, this faculty was again restored-and what is still more incomprehensible, without the slightest impediment of any kind-a blessing which she uninterruptedly enjoys to the present time.

#### The Late Transist of Mercury.

On Thursday the 9th ult., sgreeably to the predictions of astronomers, the sun rose with the planet just entered on its disc, and with only occasional interruptions of thin clouds, remained visible till the time of the end, a few minutes before 11 o'clock A. M.

The duties of the Cincinnati Observatory were not neglected. At the invitation of the Director, Messrs. Walker, Yarnall and Pourtales made such observations of this interesting phenomenon as were suited to the occasion, and recorded in the Journal of the Observatory. It is but three years and a half since the great telescope was erected. The first use | and copper, attracted the insoluble bases, the made of it was to observe the transit of Mercury on the Palo Alto anniversary on the 8th of May, 1847. The longitude of the observatory by that transit has received no correction till the recent comparison of it with the Atlantic observatories through the aid of the telegraph. We learn that the longitude obtained by Prof. Mitchell on that occasion, has needed only a change of about a quarter of a minute of time to conform to the most recent re-

It seems somewhat strange, that, in the present perfection of the science of Astronomy. an error of some three minutes should be committed by computers, in assigning the time of the end of the transit. Three minutes, however, is better that half an hour-the or dinary error of such work at the commencement of the century.

#### The Body Rendered Fire Proof.

fire by the following embrocation being applied One ounce and a half of glue dissolved | ed in feeding corn to feed children, than feedounce of fish glue, and half an ounce of gum arabic.

and must say that it is of doubtful progeny and husbandry, whose attention is awake to evemore doubtful veracity, and we think this is ry object that can be enlisted for the promoa caution enough to copyists.

Compressed Air Locomotion on Common Roads.

The London Mining Journal says that a third trial was made a short time ago for testing the capabilities of Baron Von Rathen's compressed air locomotive for working the air expansively and which operated very well although there was one or two leaks which subtracted somewhat from the real power .-As it was, however, the carriage, weighing 3 tons, and carrying from 25 to 30 persons, started in good style, and kept pace with former experiments, as to time and distance : the motion was very regular, and the machinery stood well-the only casualty being the above leakage. The patentee considers he has now completely solved the problem of the practicability of employing compressed air in locomotion, and regulating it as to distance, speed, lead, nature of road, &c .- on which, with the greater or less perfection in the construction of the machinery, its success, of course, depends. He is prepared to show to mathematical demonstration, that he can embody sufficient power in this model air-carriage to carry 41 tons, including carriage, 10 miles in one hour on common roads, or a train of 45 tons in the same time the same distance on a railroad ; but if carried out on a large scale on the latter, he contends that the system would effect a saving of 75 per cent over the steam locomotive.

#### The Ball Axietree.

This issimply a groove turned in the axle, and a corresponding groove in the box, into which groove are dropped one or two steel balls, so contrived that one-half of the ball is always in the groove of the box, and the other half in the groove of the axie-thus preventing the possibility of the wheel coming loose, and in a considerable degree reducing the friction. The box is perfectly air-tight, and contains a considerable quantity of oil, and the process of removing the wheel when necessary is reduced to the very extreme of simplicity.

It is simply anti-friction balls, which have long been employed in shafting, applied to the axle of a cheriage. The great difficulty with them lies in their being apt to wear uneven from inequalities in the metal.

#### Galvanic Sheeting for Ships.

In 1827, by the advice of Sir Humphrey Davy, the English Admiralty caused the copper sheathing of vessels to be covered with a certain number of plates of zinc, in order to oppose, by a galvanic action, the rapid corrosion of the metal in sea-water, patticularly on some parts of the coast of Africa. But this expedient had soon to be abandoned, because considerable deposits of shells and agglutinated sand encrusted the vessel so rapidly, that its progress was retarded. The galvanic action in this case accelerated the phenomenon. The copper, rendered negatively electrical by the pile formed by the superimposed zinc magnesia and lime, held in solution in the sea-water, and the side of the vessel began to be covered with carbonate of lime and magnesia, the shells and sand being then precipitated on these earthy deposits.

# Sca Weed for Manure.

It is a common thing for farmers on the sea coast of Connecticut and Massachusetts, to manure their fields from the produce of old ocean. During storms both sea weed and fish are frequently thrown upon the shore and sometimes the weed is gathered from the for a deep science it is, to the study of our rocks, far below the surface of the water, by those who make it a business during the proper season for the purpose of selling to the farmers. The fish are principally the mossbunkers, that come upon the whole Eastern coast in countless shoals during the summer months. But with these a great variety of others are brought to shore in the capacious Tanacre a Neapolitan physician states that nets that are used. Young sharks in considethe human body can be rendered insensible to rable numbers are sometimes taken at a single haul, and are more appropriately employin four ounces of hot water; to this add an ing on them. The practice above noted has raised the price of land from \$15 or \$20 per acre to \$75 and \$100. It shows conclusively, This is a receipt which we have selected the advantage to be derived by an intelligent tion of its interests.

#### Rolden's Dollar Magazine.

The December No. of our favorite is before us replete with instruction and amusement as usual. It is certainly a splendid number and though it bears no comparison to the January number (the proof sheets of which we have seen) it is yet the handsomest one yet issued. The frontispiece is certainly one of the finest specimens of Wood engravings ever seen in this country. We cannot too highly extol the meritorious qualities of this publication. In the year it has secured the enviable title of the "Blackwood of America," and seems determined to excel next year its previous reputation. 1t is essentially an American Magazine and as such should meet the warm encouragement of American mechanics, farmers and laborers, and no doubt will eventually secure the largest circulation of any similar publication in the world. Published by C. W. Holden, 109 Nassau street.

#### Gold Smelting.

The silver and gold smelting establishment of Mr. John Warwick in this city, now does a business of \$3,000 a week. It is the largest Gold smelting works in the United States. Ores of all kinds and hundreds of barrels of Jewellers' sweepings, old crucibles, &c., are taken there to be ground up and have the gold extracted. After being twice refined the gold is feathered in water and returned in its purest state to the owner.

#### Factories in the West.

The Quarterly Review of the Methodist Church, comtemplates the time when manufactories will crowd the shores of the Ohio. It says :-

" The abundance of cheap fuel for the production of motive power-the proximity to the cotton growing region-and to a market for coarse cottons, extending from the Mississippi to the Pacific, and from the falls of St. Anthony to the centre of Mexico-the profusion and cheapness of all that is needed for the sustenance of man and beast-the rapid increase of population, eager to acheive a fortune more easily and rapidly than by the small and slow returns of agriculture, are considerations which render it impossible to doubt that other Lowells than that which skill and enterprise have constructed where the disadvantages were incalcuable, must spring up naturally and almost spontaneously, where the advantages are so conspicuous."

What is here said by the Review applies with double force to the South. We trust that such truths, which are rung so constantly in the ears of the South, will at last exhibit themselves in action.

#### British Steamers at Mobile.

We learn from the Mobile Register that arrangements have been made by which the British steamers will soon call regular at Mobile Point, on their way to and back from the West India Islands. This line of steamships annually consumes, it is said, about \$450,000 worth of coal; two thirds of which will be taken from the coal fields of Alabama.

Five hundred tons of copper arrived in this city from Valparaiso three weeks ago. It is the first of a new kind of trade with South America, and the United States, heretofore the copper and ore of South America was all sent to England, now it has began to take a different route. The smelting business in the United States, (of all kinds of metals) is but in its infancy and we commend the science, people.

The Queen and Prince Albert have appeared in rather new characters, suitors in the Court of Chancery, seeking to prevent piracy of their etching and drawings by one of the publishers in Paternoster-row. An injunction to restrain the publication has been granted.

Of the 56,000 square miles embraced in the limits of the Prairie State, (Illinois) 50,000 are fertile and arrable—an amount equal to the whole territory of New England, excepting Vermont.

Great efforts are now making throughout this and other States, to bring about a universal Ten Hour factory system. The manufacturers are not opposed to it but favorable, only they wish a general system for fair play.