#### HOME INDUSTRY.

tural columns of the News of last week, under the heading of "Agricultural Science and Art" produced an affirmative vibration among some of our most experienced and practical men.

"ONE OF THE MECHANICS," a gentleman of acknowledged skill in mechanism, ventilates the subject thus:

very early times in England and on the Continent of Europe, and, for driving flour mills and raising water for irrigation and drainage that burdensome pomp and parade that often has given a fair amount of work, especially considering the proverbial uncertainty of the impelling power.

The Dutch appear to have been the first to avail themselves of it to any great extent for but respectable military parade under the didraining their low countries; and in some rection of Col. Gamble, and a public assemparts of England, till within a few years, numbers of them might be seen in every direction raising the water from he main drains into channels at a higher level. They have now been mostly superseded by large steam engines, each capable of doing the work of from twenty to thirty of the old nills, as more economical because more reliable, especially as in the countries mentioned feel is cheap ence. and land valuable.

For light powers, the style of nill in general use for pumping, &c., on the railroads in the States would be the best adapted to the wants of this country; while for heavier none of that kind of arms in that place, the work, the old country style would provably be found the most serviceable-the principal difference being that the former is generally built as a light wheel of moderate size, full of "vanes," while the latter has from four to six has been furnished, the reporter merely anarms of a large sweep with a number of imall slats on each forming the "sail"-the arns in some cases being as much as seventy feet by the people of that small town in the foreacross and driving four run of stones, with going manner, in commemoration of the signtheir accompanying machinery.

As an apparatus for raising water in large quantities to a moderate height for irrigation and drainage the "scoop wheel" is generally ples of liberty therein set forth. conceded to be the best, requiring little or no attention, with but little wear and tear, and a very imposing scene was displayed on the no loose pieces to get out of order, while from the entire absence of frictional surfaces in conjured by the water being foul or sandy.

Water power as we have it here is at best scarce and uncertain; because, from the quantity of water required for irrigation and the stoppage in the winter from frost, few mills are capable of working more than six months in the year with full power and full time .-The latter difficulty may be almost or entirely overcome by using the 'turbine wheel,' which, from five to ten per cent. more power than the best constructed breast wheel under the same circumstances. The power of the water, of course, is the same, but the vaste is less on from the higher running velocity, less gearing is required and there is consequently less loss from friction.

reliable of any motive power being always at or of the city, made a patriotic speech. command and capable of being increased to any amount in the san e location.

tle nature of the moving fore, requires more care and attention in designing and building than any other motor. Stean engines may be States, in appearance the same, but with a the enlivening music of the Band. working difference of from fur to six pounds of coal for the same power-the most favorable result for small engine of from four to ten horse power being about hree pounds and a half of coal per horse power per hour. The principal points to be observed are good fitting of the working parts, the maximum of strength with the minimum of weigh in all the moving pieces, a correct form and aljustment of the therefore the lightest and smallest or the most expensive.

There is, in my judgment, to business which, in this Territory, will at present pay better or more surely conduce to the ermanent advantage of the community, that a machine shop and foundry, even with, all he incumbent disposted on the present actual improvements in machinery of all kinds and who would owe his bilities to his position.

Iron founding, especially is always in demand and, from a careful talculation of all contingencies and expenses, I am confident tained for castings of an average weight, it will pay and pay well to import pig iron from the States with which our old scrap can be mixed and so make a realy serviceable metal.

I would much prefer, however, to have the iron from the native ore; but, from the disas- the opinion that a country residence on the trous failures which have hitherto attended. our past efforts to make ion in Utah, such a consummation is scarcely to be anticipated to the enjoyment of life, than the duties he very soon.

The reapers, thrashers, &c., spoken of in the DESERET NEWS of the 11th inst., and a thousand other articles which are continually required-from a steam engine to a sewing machine, as was correctly stited, can be made here; and I may go further and say without hesitancy, that, "all things considered," mait can be imported, as we have as good scientific mechanics as can be found elsewhere-

men who have been for years in charge of machine shops in the East and West, where It seems that our remarks in the agricul- brains and the faculty of using them were valued as much, at least, as the capabilities requisite for driving a yoke of cattle.

ONE OF THE MECHANICS.

### Fourth of July Celebrations.

The patriotic people of Ogden city celebrated the eighty-fourth anniversary of our national independence, very appropriately, according to the report with which we have been The windmill as a motor has been used from favored, much after the old fashioned custom, in which all heartily participated without attend such occasions.

> . The appropriate salutes were fired by Maj. McGaw's Light Artillery, there was a small blage of the citizens at which speeches were made by Gen. West, Maj. McGaw and others.

> The day passed off without disorder or accident, with the "Star Spangled Banner" floating over the city as proudly as it ever waved since the Declaration of American Independ-

> At American Fork, the day was celebrated by the burning of large quantities of gunpowder, not by discharging cannon, as they have raising of the national flags, a procession, an oration, speeches, toasts, &c.

> No very lengthy report of the proceedings nouncing the fact that the day was observed ing of the Declaration of Independence, and to manifest their appreciation of the princi-

At Nephi, the county seat of Juab county, return of the national anniversary, but the tact with the water, it is not liable to be in- booming of cannon was not heard among the notes of joy that were uttered or sent forth on that occasion, the men of war in that city having failed thus far to provide themselves with such weapons of defense. In musketry, however, they are not deficient, and they were used on that day in lieu of arms of larger caliber. The people were awakened at early when properly constructed and adapted, gives dawn by the discharge of fire-arms and by music by Capt. Hawkin's Brass Band. The Stars and Stripes were unfurled and floated in the breeze during the day. There was a this kind of wheel than on any other; while, grand procession in the forenoon, also a large assemblage at the Bowery, where after the reading of the Declaration of Independence, Steam power, when available and properly Judge Love, the orator of the day, delivered a a.m. directed, is by far the most economical and short oration and the Hon. J. G. Bigler, May-

A sumptuous dinner was provided, of which | consideration. The steam engines, however, from the sub- all the citizens, without distinction, partook in old fashioned style; after which, speeches were made; toasts and sentiments offered and bought at almost any madine shop in the songs were sung, the whole interspersed with or unbolted, pour scalding water on it, and

Broadhead and E. Harley.

It may be considered unnecessary to add that | If salt is used it prevents the bread being not only at Nephi, but at Ogden and Ameri- light. We are sure this statement will not be can Fork, after the usual ceremonies of the credited as truth, yet it is really true, and you celebration were performed, the balance of the will have light, sweet, healthy bread. If you steam valves, and a good beler, which is not day and evening was devoted to various kinds do not succeed first time, "try again;" and if of amusement, and that dancing in particular | you do not like the taste first time, you will was indulged in quite extensively.

# Retired.

By the last number of the Mountaineer we advantages, provided that it is under the sup- are informed that Major Blair, the late senior erintendence of a competent engineer, well Editor of that paper, has retired from that establishment with the intention of entering position to his capabilities, and not his capa- once more upon the scenes of a frontier or border life, which seem congenial to his taste and suited to his constitution. He is preparing to erect a saw mill at Franklin, the most that, if twenty-five cents per pound can be ob- northern settlement in Cache county, as the incipient step to his establishing himself permanently at that place, to, which he intends shortly to remove.

The Major's health is not good and he is of frontiers of civilization will be more conducive has of late performed.

He will please accept of our best wishes for his welfare and prosperity in all time to come. an exchange.

-A violent type of yellow fever was raging at Accapulco, from the effects of which upwards of 500 deaths had occurred within six weeks previous to the 26th of May. Among chinery can now be got up here cheaper than those who had died were the American Consul and some twenty Americans. Those who had ward of \$1,000 for a cure of the hog cholera the opportunity were fast leaving for the in- now prevailing in that State. terior of Mexico.

#### Extending "Aid and Comfort" to the Hostile Indians.

Through the politeness of Gen. Stambaugh, we have been favored with the perusal of a letter written by a gentleman well known in this country for probity and veracity, dated at received by Monday evening's Express, in es made against a certain Government herdsman in Rush valley, at whose camp, as alleged depredations committed on that route between encouraged by receiving food, clothing, ammunition and such "aid and comfort" as they sent. needed to carry on their warfare with the cess.

cently stolen and killed between thirty and wicked and to cling to that which is right. forty head of stock at that place; that Major Briefly alluded to his receiving the gospel and Egan had been out after them with a party in the evidence the Lord gave him of its divine order to find and chastise them for their te- origin, and to the judgments that are being merity but had returned without seeing one of poured out upon the nations. Remarked that the hostile red men, and that two friendly In- those who neglect their prayers become stupid dians had told him that the maurauders had and incapable of comprehending the truths of gone to the aforesaid camp, where it was pre- the gospel of Christ. sumed they would obtain a fresh supply of President Brigham Young said: This people stopped.

has been expended ostensibly to support.

of Indian Affairs" in this Territory, will un- who pursue a course to destroy their neighdoubtedly take measures to ascertain, immedi- bors, will be destroyed. Men may read the true or false.

SCHOOL TEACHERS' AND TRUSTEES' CON-VENTION. - The trustees and teachers of schools in Utah county are requested to meet plagues of the last days is not much; all that in convention, in the Seminary building, at Provo city, on Sunday, July 29th, at 9 o'clock

terest and importance will be presented for

## To Make Unfermented Bread.

Take the usual quantity of flour, either fine mix or stir to stiff batter, then cover it with The committee of arrangements consisted of dry flour, roll it out half an inch thick, cut Messrs. G. Kendall, H. Brown, M. Miller, W. into small cakes, and bake in a very quick or hot oven.

> soon learn to like it, and find it so much superior to fermented bread, of which 99 per cent is sour, that you will always eat it in prefer-

If you don't believe we make such bread, livered short addresses to the congregation. come and see us at home, and eat with us .-Cal. Farmer.

-The French journals report, that insanity, is much on the increase in Paris. Three lupaadmission at the Tuilleries, seeking an audience of the Emperor Napoleon, on various pretexts. A considerable number of eccentric and insane persons, have recently publicly exas to call for restraint.

-It is satisfactory to the Second Advent people to know that J. V. Himes, the leader of the American flock, has made an agreement in 1867. So long as these two lights were at it to be distributed. variance concerning the time of the catastrophe, of course nothing could be done. So says.

which was 18 inches across the the shoulders. and 2 1-2 feet long. Good news for frog- ment.

-The Legislature of Kentucky offer a re-

## BOWERY.

On Sunday morning, July 15, at 10 o'clock, Elder James W. Cummings addressed the congregation, taking for a text, "Whosoever transgresseth and abideth not in the doctrine of Christ, hath not God. He that abideth in Deep creek, C. & S.L. Mail Line, July 15th, and the doctrine of Christ, he hath both the Father and the Son."-2d Epistle of John, verse which there are some grave and serious charg- 9. Said the religious world are groveling in the dark because their forefathers neglected to abide in the doctrine of Christ; argued that hostile Indians that have been engaged in the the predictions of the old prophets are being fulfilled to the very letter, and that the curse this city and Carson have been harbored and of God is manifestly resting upon those who have rejected the message which the Lord has

President Heber C. Kimball spoke upon the whites along the Mail Line, which they have | text, "He that believeth and is baptized shall been prosecuting for months with much suc- be saved; but he that believeth not shall be damned."-Mark, 16th chap. Called upon The writer says that the Indians have re- the Saints to abstain from everything that is

ammunition and provisions to enable them to have the words of eternal life within them; renew and carry on hostilities. He concludes that those who turn away from the truth beby saying: "We have enough to do, to contend come dark and benighted and walk in thick with the savages themselves, without having darkness; if the light that is given be taken white men furnish them the means to kill our away, the darkness that follows is in propormen as well as our stock;" and suggests that tion to the light that has been possessed; the the attention of Colonel Smith, at present com- man who has not passed the day of God's manding in the Department of Utah, should be favor, will have the light of God gleaming in called to the subject that the evil might be upon him occasionally, but when that roint is passed he is given up to the buffetings of Satan. If the facts are as represented, measures No matter who proclaims it, the truth belong should be taken immediately to bring the to the people of God; if Lucifer comes and offenders to justice and, if persons in the em- presents a truth, the Saints have a right to reploy of the United States are aiding the ceive it, for it is theirs and not his; it is for Indians in that way, they should be made to the Saints to receive all truth, but they are feel the weight of that power so much money not under obligation to obey any man or being except the Son of God, to whom we belong. Gen. Stambaugh, as "acting Superintendent | Those who take the road that leads to death; ately, whether those grave allegations are words of life, but the natural mind cannot understand the things of God; they must have a preacher to proclaim to them the words of life. All we read in the newspapers about the we hear and now know is not the preface to the sermon that is to be preached to the people in hailstorms, in earthquakes, in thunder-A full attendance is urged, as matters of in- ings and the general destruction; the sea will heave beyond its bounds and famines will spread abroad, not only in a county, but it will spread and be felt in States, nations and over continents, and the Saints will close their eyes upon the scenes that will be presented before them, and their hearts will be filled with pain. The bowels of Jesus yearn over the people of that nation that have persecuted the Saints of God for these thirty years, and many of them can yet be saved if they will turn to the Lord. Reasoned on the progressive nature of the gospel; observed that it is a present salvation that we need; and we can enjoy nothing else; we need the Holy Ghost now to keep us on saving ground; we require to be saved now, to-morrow, the next day, and finally, if we continue in good works, we shall be saved in the celestial kingdom of our God, when it is time for us to go there.

In the afternoon, President Daniel H. Wells, Bishop Hunter and President B. Young de-

## Latest from the West!

The express came in from the west on Monday evening bringing little or no news, further tics on a recent day, successively applied for than that the pony came through from Carson, without molestation. It was believed that the hostile Indians on the route had mostly left it for the time being, not because of the hibited their peculiarities in such a manner presence of the troops, but to recruit their horses and prepare for future operations.

CALIFORNIA MAIL .- As we were going to press yesterday evening the California mail with Dr. Cumming, whereby the end of all arrived, It was reported as being in a very things, including the world, is to take place damaged condition and we could not wait for

COUNTY COURT .- A session of the County Court for Great Salt Lake county, will be held -A frog is said to have been killed in Texas, on Friday August 3d, pursuant to adjourn-

WOOD! WOOD!!-A few cords of wood! will be received on subscription to the DES-ERET NEWS. Bring them on without del y.