period than three months. Correspondence solicited from all parts of the country. No notice will be taken of adonymous communications,

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# The Forest Republican.

VOL. X NO. 2.

TIONESTA, PA., APRIL 11, 1877.

\$2 PER ANNUM.

DE ELS. C. DE. REELATER. DRESSMAKER, Tionesta, Pa.

MRS. HEATH has recently moved to this place for the purpose of meeting awant which the ladies of the town and county have for a long time known, that of liaving a drossmaker of experience among them. I am propared to make all kinds of dresses in the latest styles, and guarantee satisfaction. Stamping for braid-ing and embroidery done in the best mannor, with the newest patterns. All I ask is a tair trial. Residence on Elm Street, in the Acomb Building.

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Dr. J. L. Acomb, DHYSICIAN AND SURGEON, who has I had fifteen years' experience in a large and successful practice, will attend all Professional Calls. Office in his Drug and Grocery Store, located in Tidioute, near

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A full assertment of Medicines, Liquors Tobacco, Cigars, Stationery, Glass, Paints, Oils, Cutlery, all of the best quality, and DR. CHAS, O. DAY, an experienced Physician and Drhg ist from New York, has charge of the Store. All prescriptions put up accurately.

Boiler Explosion-Their Causes and explosions that are constantly going is increased beyond the strength of Remedies.

TIONESTA, PA., April 3, 1877. ED. REPUBLICAN:-

After rending the account of the recent boiler explosion at Rogers & Landers' Mill, where two men were hurled instantly into the other world, others maimed and crippled for life, beside the terrible destruction of property, it certainly passes through the mind of the thinking portion of community, that there ought to be more stringert laws for the inspection and testing of steam boilers, and a radical reform in the

management of them. The oil and lumber interest have brought a great meny ongines and boilers into this country, and with them a fair amount of good engineers; but the majority of the men that have charge of boilers here, are men who are not at all fitted for what they are employed to do. We will start out man too: now to fire a saw-mill boiler does not require the care and train-

under these very conditions, they lose strongest workmanship destroyed." both their boiler and their life, and man try it just before the explosion.

tice is that of blowing water out of ly oxidated, but clean, is 281° F. the boiler under pressure, and in some that of perfect repulsion of cases that have come under my no same is 433°; the temperature of in this region as anywhere in the Unicleaning the builers during a whole copper is 292°; while that of perfect tached to them. The whole trouble dized, the temperature of maximum pressure is, the large amount of scum perfect repulsion is 338 °. that is on top of the water, and as the there, by the heat of the boiler and ploded, that there are many boilers in wall, forming a new scale every time use that are defective in construction, the boiler is blown out. This will with poor safety valves on them; gauge in a short time reuder it unfit for use cocks half choked up, and with large beside costing one-third more to run accumulations of sediment or scale in it. The only and safe way is to let them, so that it is hard to understand the water out after the boiler and fur- why they have not exploded, while in the office of the boiler inspector of boilers never show evidence of being any of our large cities, and any engi- in bad conditions, and many are inneer can learn from the samples of spected that are not even suspected burnt and blistered iron there exhibi- and found in prime order for an extod, the absolute necessity of keeping plosion. Mr. Fairbanks says: "ex-

on in muddy and scaly boilers, until the boiler, and the rupture or break at last one comes along with more will commence at the weakest part of force than another and another exjust before she west up.

That there are a great many explusions caused by averheating near the bottom of the boiler, causing the explosion at Rogers & Landers mill I was put in a grocery and provision water to be thrown with such force as to break the shell, I think there can cases of properly constructed boilers, be no doubt. Mr. Rankin (see his can only be produced by pressure manual of the steam engine and other prime movers) says of this class of explusions: "There is much difference of opinion as to some points of detail in the manner in which this phenomnon is produced, but there can be no doubt that its primary causes are, first, the overheating of the plates of accidents have occurred from defect- ed quickly. the boiler (being in most cases that ive safety valves. Plesays as bearing portion called the crown sheet, which upon this part of the subject of the is directly over the fire), so that a store of heat is accumulated; and and take the average saw-mill engi. secondly, the sudden contact of such neer-and by the way he's the fire. overheated plates with water, so that the beat stored up is suddenly expended in the production of a large quani- about twenty eight feet long, with two ing that it does to fire a steamboat ty of steam at high pressure. Some boiler, or any boiler that fires with engineers held that no portion of the coal, because the fire is not so liable plate can thus become overheated; unto get beyond your control as a coal less the level of the surface of the wafire. You can put a saw dust fire un- ter sinks so low as to leave that porder in a few minutes, where with a tion of the plate above it, and uncovcoal fire you would have to work-half ered. Others maintain with M. Bou- it was known that the water had been an hour, and keep your pump going tigney, that when a metallic surface all the time. On most saw-mills of is heated above a certain elevated supposition that it might have been se- meat. The Gineral is a mighty good this region the filer has charge of the temperature, water is prevented from boiler and engine, and if anything actually touching it, either by a digoes wrong compelling them to shut rect repulsion or a film or layer of down, he is called away to the saw, very dense vapor; and that when this front, thereby bringing too much either to file or repair, leaving the has once taken place, the plate being weight on a little pier on the brige boiler in charge of the fireman. Your left dry, may go on rising in temperaaverage fireman has a certain pride ture for an indefinite time, until some about him to keep up all the steam agitation, or the introduction of cold that is needed (and to do so requires water, shall produce contact between hard work on his part), so he fills his the water and the plate, and bring fire box with wood and has the steam about an explosion." Mr. Brown, in blowing off at about 90 or 100 lbs., the eighth edition of his Treatise on at their ordinary working pressures, and waits the word to start up, which | the Steam Engine, says: "There can he generally does by letting on the be no doubt that the water is repelled den increase of pressure, because of as her President, I must share her full head of steam. Often the very from the metal in the same manner as act of starting up so will raise the it would be done if it were in the safety valve so that it fairly howls for spheriodal state; and explosions have, a while, until the circulation has no doubt, had their origin in this phostarted in the boiler and all the parti- nomona. The water appears to be cles of steam and water are in motion, repelled from those parts where the Some mills are fitted with what is heat is greatest." Mr. Calbourn, in called a sawyer's valve-a valve that speaking of the rising of the water be. fective staying of the flat part of the is opened and shut by the sawyer at cause of the condensation of the steam the saw frame. These the engineer above the water, says, regarding the can only start up slow; but before force of the blow given by it: "In the circulation has commenced, the this case it would not be necessary to sawyer opens up the valve, the steam assume the existence of any defect in strikes a blow on the piston head, re- the boiler; for when the water once bounds to the boiler, sometimes with- struck violently, the soundest iron longitudinal seam in punching, bending out any visible injury, - but some day would probably be broken, and the pinning, and riveting, that the little

those left behind wonder how 'twas of the Franklin Institute, demonstra- ure, may, by corrosion, so reduce the Call and examine his stock and prices, that such treatment will sooner or lat- vaporization of a clean iron surface, explosion may ensue." er destroy any boiler in use-and like that of a clean iron steam boiler, gravely inform you that the water is 3461 ° F.; that the temperature of was all right, for they heard the fire perfect repulsion for the same is 385 " F. ; that the temperature of mamimum Another bad and daugerous prace imum vavorization for iron hightice, never letting the water out or maximum vaporization of polished summer. Some had no blow-off at- repulsion is 315°; for the same oxi in blowing water out of boilers under vaporization is 317°; while that of

It is known to all who have had EMPLOYMENT, Male and female, sala-salary of \$10 a seek and expenses. Euro-ka Manufaspieing Co., Hurtfird, Com., Particulars free.

Little Johnnie is quite sure the ple-ing doughnuts?" "Well, you might by that, and pure water, that you occur whenever the pressure of steam. That 'ud be funny for you,"

Little Johnnie is quite sure the ple-ing doughnuts?" "Well, you might by that, and pure water, that you occur whenever the pressure of steam. That 'ud be funny for you,"

Little Johnnie is quite sure the ple-ing doughnuts?" "Well, you might by that, and pure water, that you occur whenever the pressure of steam. That 'ud be funny for you,"

the boiler; the violence of the exploregards the water level at which the worth preserving. builer yields," Such explosions (and I take it from what I hear that the very much above the ordinary workadhesion of the valve to its seat; or by the closing of a stop valve between | buss to it as soon as he came in. the safety valve and the boiler. Many strength of boilers to withstand a Did Tom say he would see it paid?" steady pressure: "It will not be out of place to mention the case of an old boiler which I tested some years ngo: this was forty-two inches in diameter, less Tom will say it shall be paid for." hends were of east iron. The iron in the shell appeared to have been 5 16 of an inch in thickness, and that in the flues 3-16 of an inch thick. It had been in use for over twenty years, and so low in it at one time as to lead to lower side, caused by a settling of the wall; yet it stood a pressure of two hundred and forty pounds per square inch without a sign of yielding. Notwithstanding this great strength of boilers, it is undoubtedly true that there have been explosions of boilers without overheating and without suddefects of material, design or workmanship; as, for example, a plate that has to be flanged, may be so poor, or worked with so little skill as to have so little strength left in the bends, that a little alteration of form, from variation of pressure, on account of the deplate, may lead to an explosion. A boiler may be so poorly stayed that a very little corresion around an imperfeet weld in one of the stays may lead its strength so reduced at or near a alteration of form that takes place at The experiments of the committee | this place at every variation of press-

R.

An eloping couple in this instance were overtaken by the girl's father at water lowers in the boiler this seum any experience in the examination of Casey station, Tennessee. He pulled sticks to the sides, and it, with the exploded boilers, and also in the in- her out of the lover's wagon, put her mud that settles on the bottom, dries spection of old boilers that have not ex- in front of himself on a mule's back, should be no drawbacks in the way. and started for home. The lover gave Every tool, implement and machine chase, but the wagon broke down, should be in the best condition for use. Did his presence of mind forsake him Even the horses should be in their in that emergancy? No. He shouted, "Sally, if you love me, slide off the important item. The extile should be mule !" She wriggled out of her par- kept in good flesh prior to entering Sally, if you love me, slide off the ent's grip, and slid off the mule's back. Before the parent could get her re- thrown open to the cattle before the mounted the lover came up afoot and, nace have cooled off, and then wash many instances of explosion there are in hand to hand encounter, triumph- well grown. The rolling of wheat it out; get all the mud off the walls no such indications of weakness, or of ed over the old man. The young ones fields has a tendency to force back the and bettom of the boiler. Go into defective fittings. Many exploded mounted the mule and fled. The old roots of the plant, which the frost has his portion and drove sadly home.

> "Ma, why don't you speak?" said little Jake. "Why don't you say treated .- Germantown Telegraph. suthin' funny?" "What can I say

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Sam Houston and the Ham.

On a recent business trip to Houston I had for traveling companion a well known merchant of this city, plusion is recorded, and no one left sion will depend apon the pressure at who told story after story of early to tell the old story of plenty of water the time, and, upon the point as days in Texas. One struck me as

> "When my father first came here," said the merchant, "he settled in Houston-then the capital of Texas. was of this class), when they occur in store under a very strict and parsimonious boss. One morning, just as I had swept out, Tom, Gen. Houston's body servant, came into the store. Looking round he spied a ham-a ing pressure and, may be pro- rara avis in those days. Having askduced by an accidental or willful ed the price, he said he would take it overloading of the safty valve; by the and the President would call around and pay for it. I felt proud of my sale, and called the attention of the

" Did you get the money?' he ask-

'No; but President Houston is coming round to pay for it." " President Houston -the devil! " Tio, sir,

"Then you are a fool. Now, sir, you go straight to the President's citchen and bring co that ham, un-

"I started off, very much crestfaltwelve-inch flues through it. The len, and not liking the job before me. But I resolutely walked into the President's kitchen. Tom was there. I saw my ham lying there, with a few alices out off it, and seizing it, told Tom, unless he would undertake to see that the money was paid, I must take it back.

"Tom cogitated awhile, and then said: 'Young man, take back your verely injured by the over heating. It master, but a mighty poor paymaster. had also a heavy indentation on its and I don't keer to involvilate myself

with his debts?' "This was enough for me. I left with the ham in my hand, Going around to the gate, I had to pass the front door. There stood Gen. Houston, the President of Texas, with a pocket handkerehief in one hand and a toothpick in the other. My little man, says he, to his superly manner, 'tell your master I am under great obligations for a most delicious breakfast, and would pay him, but I really haven't got the money. The fact is, young man, Texas is very poor, and, poverty. "-N. I. Sun.

## They Knew She Was Married.

They were very pretty, and there was apparently five or six years difference in their ages. As the train pulled up at Bussey, out on the A., K., & D., the younger girl blushed, flattened her nose nervously against the window, and drew back in joyous smiles as a young men came dashing into the car, shook hands tenderly and cordially, insisted on carrying her vato an explosion; or a plate may have lise, magazine, little paper bondle, and would probably have carried her had she permitted him. The passengers smiled as she left the car, and the murmur went rippling through the coach: "They're engaged." The other girl sat looking nervously out of the window, and once or twice done, -never thinking or knowing ted that the temperature of maximum plate in strength at that point, that an though she would leave the car, yet seemed to be expecting some one. At I know to part of a mill that last he came. He bulged into the needs so much care as the boiler, and car like a house on fire, looked along yet gets so little, and therefore it is no the seats until his manly gaze fell on her upturned, expectant face, roared: wonder that about every paper you "Come on! I've been waiting on the read the first thing that meets your platform for fifteen minutes l' grabeye, is, "A Boiler Gone Up." I think bed her basket and strode out of the we have as good men handling boilers car, while she followed with a little valise, a band-box, a paper-bag full of lunch, a hird cage, a glass jar of ted States, but the trouble is, as long jelly preserves, and an extra shawl. as a boiler will run, why let her run, And a crusty-looking old bachelor in and it is never replaced or laid aside the further end of the car creaked until it has burst itself and some one out, in unison with the indignant looks of the passengers: "They're married!"-Burlington Hawk-Eye

Now is the time for the farmer to prepare his plans for the reason's operations. Everything should be in rediness to go right to work. There best order for the season's work, an pasture fields, and these should not be ground has become firm and the grass man collected the broken wagon as thrown up and exposed, into their proper position again, when they recommence growing again with out knowing that they were to ruthlessly