# The Centre Democrat. BELLEFONTE, PA

## AGRICULTURAL. NEWS, FACTS AND SUGGESTIONS.

THE TEST OF THE NATIONAL WELFARE IS THE INTELL GENCE AND PROSPERITY OF THE YARMER.

Every farmer in his annual experien discovers something of value. Write it and send it to the "Agricultural Editor of the DEMOCRAT, Bellefonte, Pennia," that other farmers may have the benefit of it. Let communications be timely, and be sure that they are brief and well pointed.

to think that "a heavy coat of barnyard manure is excellent for a crop of wheat." The suggestion is not entirely new, and notwithstanding the adverse opinion of ex-Commissioner of Agriculture Watts, it might to make themselves think that the

WE NOTICE that Dr. Calder, President of the State College, has been and Erie counties, for the past week or ten days. The Doctor is a pleasant speaker, and capable of imparting much useful knowledge on agricultural and horticultural subjects, and result in good to the order, and the cause of agriculture generally.

WE OBSERVE that the authorities of the Bald Eagle Valley Railroad are having the weeds which line the sides of their track in many places, mowed, thanks of the farming community. multitudes of seeds which spread themselves over the lands adjoining any be needed, for occupying so large themselves will not fail to follow the · good example thus set them.

A NOTE from the publishers of the Rural New Yorker informs us that the special Fair Edition to which we alluded week before last, will be the issue of September 6. This edition will be elegantly gotten up, with tinted covers, and an unusual number of excellent engravings, and will be worth seeing. Its special feature will be the announcement of the Rural's annual free seed distribution, and it will be sent free to anyone who will send his address to the Rural, 78 Duane street, New York.

REAPERS with self-binding attachments have abounded in the West for and territory infested next year, we some years past, but these have all addressed a letter to the Commisused string or wire for the band. In sioner of Agriculture, at Washingthrashing, and more particularly in ton, asking for information on the are objectionable, and a demand is the following communication : made for a machine which will bind the gavels with their own straw. We understand that this has recently been accomplished by an invention patented by Mr. Daniel Williamson, of Sunbury. If this proves to be entirely successful, and we do not see why it should not, it will be a · decided accession to the self-binders, and Mr. Williamson may congratulate himself upon his prospects of a comfortable fortune.

THOSE who wish to have fine flowers during the winter, or good success ith house-grown vegetable plants for

are requested to accompany the report with a correct and full account of the location of the herd and the symptoms, in order that all unnecessary expense to the State may be avoided.

THE Patrons of Husbandry, at the meeting of the county Grange at Centre Hall, on the 5th inst., very emphatically sat down on Senator St. Clair's College investigating committee, denouncing its report as "untruthful and malicious in intent." The resolution "commending the Col-THE Farm Journal seems inclined lege to the patronage of all who have sons to educate," founded on "a desire to benefit the agricultural community," will be interesting reading for our friends of the Practical Farmer, who have lately been trying be worth while to try the experiment College should be moved to Chester county, ostensibly that the students might have an opportunity to profit by the illustrious example of the speaking to the Patrons in Warren Chester county farmers, but really because ----?

WE ARE now in the very heart of the time when the preparation of the ground and sowing the seed for the his efforts in this direction can but next wheat crop is engrossing the attention of every farmer in Centre county. As this is one of, if not the, main crops of our county, and occupies the largest acreage of any, it is very evident that even a small decrease in the expense of cultivating it, per acre, or a small increase per acre and for this we tender them the in the yield, must be of immense benefit to us as a community of farmers. This will prevent the ripening of It is the importance of this crop which must constitute our apology, if the track, and we trust the farmers a portion of our space this week with a melange of the many wise things which have been said regarding its culture. To reproduce all the wisdom which has been promulgated on the subject would occupy many times the space at our command, and we are obliged to content ourselves with an epitome of the experience of practical men, for the large proportion of which we acknowledge ourselves indebted to a long list of valued contemporaries.

## The Grasshopper Plague.

In view of the destruction of crops in our county already caused by the invasion of the grasshopper, and of their probable increase in numbers grinding the grain, these materials subject. In reply we have received

WASHINGTON, D. C., August 7, 1879. Hon. Wm. Le Duc, Commissioner of Ag-riculture.—Sir: In answer to the com-munication of the CENTRE DEMOCRAT of Bellefonte, Pa., which you have refer-red to me I would state: In all proba-bility the grasshoppers which are so bility the grasshoppers which are so abundant in Pennsylvania belong to the species known as *Coloptenus femur-rubrum*, which is very *Chesely* allied to the Rocky Mountain locust, (*C. spretus*). The methods of destruction which have here used against the latter species con been used against the latter species can be used against the former. The latest be used against the former. The latest and most complete account of these may be found in the partment for 1877. Very Respectfully, J. HENRY COMSTOCK, Entomologist.

#### A Creed for Farmers.

The following creed was adopted, not long since, by a convention of Canada agriculturalists. As a creed it is undoubtedly correct, but we fear that, like some others, it fails of being strictly exemplified by many who profess to believe in it :

We believe in small farms and thorough cultivation. We believe the earth loves to eat

as well as the owner, and ought, therefore, be well manured. We believe in going to the bottom

of things, and, therefore, in deep plowing, and enough of it. All, the better if it be in subsoil plow. We believe in large crops which

leave land better than they found it, making both the farm and farmer rich at once. We believe that every farmer

should own a good farm. We believe that the best fertilizer of

any soil is a spirit of industry, enterprise and intelligence : without these. lime, gypsum and guano will be of little u We believe in good fences, good

farm houses, good orchards, and good children enough to gather the fruit.

We believe in a clean kitchen, a eat wife in it, a clean cupboard, a dairy and a clear conscience.

We believe that to ask a man's advice is not stooping, but of much benefit. We believe that to keep a place

for everything, and everything in its place, saves many a step, and is pretty sure to lead to good tools and keeping them in order.

We believe that kindness to stock, like good shelter, is a saving to fodder

We believe that it is a good thing to keep an eye on experiments, and note all, good and bad.

We believe that it is a good rule to sell grain when it is ready.

#### Wheat and Its Culture.

THE EXPERIENCE . OF PRACTICAL AND SUCCESSFUL GROWERS, GATHERED

FROM ALL SOURCES. If the weather is dry when wheat is drilled in. a roller should be run over it after the drill. This will press the seed in and hold moisture.

I never have as much manure as I want for my wheat crop, and I believe I never lost a crop of wheat on land where I had top-dressed with manure.

The sesson approaches for putting out our wheat crop, at which time I top-dress for the two-fold purpose of getting a good wheat crop and a sure catch of grass to form a permanent sod. I do not attempt to top-dress unless I have fine manure.

There are few, if any, mills that will clean wheat entirely of cockle, of trees. The large farm products chess, etc., and it is still more diffichess, etc., and it is still more difficult to separate; therefore, to insure clean wheat it is of paramount im-portance that a beginning is made in  $\mathbf{x}$  as a nursery. A field of 80 acres of the right direction by sowing clean wheat, mostly Clawson, with a porseed on clean soil.

early : one is to get the summer sun on it, so as to thoroughly "fine" the surface, the other is to be able to tion and perfect cleanliness of their break it shallow so as not to have the ground loosened up too deep. If left later, the growth of weeds re-quire deep breaking to turn them under.

Recently our farmers have learned that cultivating—a very indefinite term for keeping clear of weeds—will pay in the wheat field, and there is now nothing of greater promise to our grain growers than this one of stirring the soil between the rows of wheat and killing the weeds that re-

not difficult to construct a simple cultivator that will work the spaces between the drill.

HARDWARE.

Early-plowed ground has an opportunity to pack closely, and form STOVES AND RANGES, a mellow yet firm seed bed, with hard bottom, which is just what the wheat plant wants. It should be remembered, however, that for wheat, after the first plowing, all after-culture should be near the surface. If weeds are allowed to grow so large that only the plow will turn them under, most of the benefit of early plowing of stubble is lost. I have often seen fallow plowed early in June, where the wheat was inferior to that grown after barley or oats. The reason was that the early plowing was left to grow up in weeds, until it had to be cross-plowed, while the stubble

ground was cultivated only on the surface.

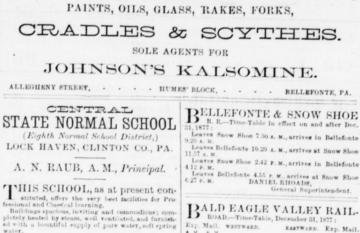
Among the improvements we would suggest for wheat farmers is the following : Preventing the effects of drouth and winter-killing of autumn-sown wheat, and giving a strong impetus to the succeeding grass crop by top-dressing with short manure after the land is plowed for seeding, harrowing well, and then drilling in the grain. The manure would tend keep the surface moist, and greatly assist in the germination and growth of the grass seed. This end would be still further assisted by a entilies. ADJUNCT COURSES: I. Academic, H. Cournercial, H. Mesic, IV, Art. The Elementary and Scientific courses are Pro-lessional, and atdents graduating therein receive State Liplomas, conferring the following and corres-poulding degrees: Master of the Elements, and Master of the Sciences. Graduates in the other courses receive Normal Certificates of their attainments, signed by the Faculty. The Person. thin coat of straw spread over the surface after the seed is in. This straw coating has sometimes proved of great value in open winters, by protecting the young plants from cold winds and preventing winterkilling.

Charles Heller, of Elmira, N. Y., recently told the members of the Farmers' Club of that place that he believed the true way to raise wheat free from weeds is by summer fallow as the ordinary plan of cropping makes no provision for clearing the land of weeds. Farmers raise oats or barley, and turn the stubble for wheat, with every kind of foul seeds that may have ripened to grow and ripen their seeds with the wheat, and when grass seed is sown it is crowded Mr. Heller did not presume to out. say that every seed will be destroyed by a summer fallow, but all that will interfere with the wheat crop may be thus killed. His practice on very weedy land is to plow once in June as early as possible, again in July, and yet again in August.

T. C. Maxwell & Brothers, who own over a thousand acres near Geneva, N. Y., and who have been long known as conducting one of the largest and most successful nurseries in the Union, cultivate one-half their land with farm crops for some years after removing the nursery trees, in order to restore it for another crop high conditition and deep tilth to

tion Canada Victor, was estimated to yield about thirty bushels per Two points are gained by plowing acre, which is much above the average in this unfavorable season through the country. The perfecwheat crops enable them to dispose of the grain at advanced prices for seed. They practice harrowing wheat in the Spring with much success, and thus obtain an increase of several bushels per acre. On heavy soils, which have become hardened

The usual \$70 Machines reduced to only \$25. The better the preparation of the ground the better the crop. The high average yield of the English farms is no doubt largely due to the Horse & Wagon Free to Agents. thorough preparation of the ground Last season was a very notable il. before seeding. Our climate is supe-rior to that of England for wheat lustration of the evil effects of late growing; yet a yield of 65 bushels plowing for wheat. While stubbles per acre is not at all infrequent among good farmers there, while here 40 bushels per acre is an unusual yield. Two plowings, several harrowings and in many cases roll-ing or crushing; and the excellent preparation of the soil by a previous root crop must have a much better effect upon the soil, than one plowing, very poorly done because of the hardness and dryness of our soil in midsummer, and very imperfect har-rowing. It might be well for us to lay out more labor on our wheat crop, and so prepare the ground bet-ter, and raise our averege from 13 to at least 20 bushels per acre. The difference in the amount of wheat at harvest would pay for a good deal of extra work in plowing, etc., and yet leave a profit; besides, the soil would not forget the generous treatment in one year nor two.



ater. Location healthful and easy of access. Surrounding scenery unsurpassed. Teachers experienced, efficient, and alive to the

cipline, firm and kind, uniform and therough.

s of study prescribed by the State: I. Mod II. Preparatory. III, Elementary, IV, Sc

Expenses moderate. Fifty cents a week deduction to those preparing :

e Faculty. The Professional courses are liberal, and are aroughness not inferior to those of our best college. The State requires a higher order of citizenshi to times demand it. It is one of the prime object this school to help to secure it by furnishing int cent and efficient teachers for her schools. To the

THE CENTRE DEMOCRAT

BUSH HOUSE BLOCK,

BELLEFONTE, PA.,

IS NOW OFFERING

GREAT INDUCEMENTS

TO THOSE WISHING FIRST-CLASS

Plain or Fancy Printing.

We have unusual facilities for printing

BOOKS, PAMPHLETS, CATALOGUES, PROGRAMMES, CTATEMEI

AND ALL KINDS OF BLANKS.

nort notice and at the lowest rates.

per Printing done in the best style, on

Dorders by mail will receive prompt

REMEMBER THE PLACE !

CENTRE DEMOCRAT OFFICE,

Bush House Block,

.

GREAT REDUCTION.

ECONOMY IS WEALTH.

\$1.50 PER WEEK.

"THE FAMILY" SHUTTLE

CIRCULARS, BILL HEADS, NOTE HEADS,

STATEMENTS,

BELLEFONTE, PA.

LAW BOOKS.

attention.

HIGH STREET.

WILSON, McFARLANE & CO.

DEALERS IN

Snow Shoe 2.42 P. M., arrives in Bellefonte J. P. M. seaves Bellefonte 4.55 P. M., arrives at Snow Shoe DANIEL EHOADS, General Superintendent. TALD BACKBROOK

					AG Time-	LE VAL Table, Decemb	LE	Y	H 87	2A	I	L
					TWAE	D. EART	WAS	D.	E	xp.	M	.il
1									P	м.		M
1		. 9	32	*****	Arris.	e at Tyrone L	eave		7	68		5
1		- 0.	20	******	Leave	East Tyrone I	Leas	e	7	15	*	3
1						Vail	44		7	19	8	4
1						Bald Eagle	4.6		7	23	×	4
4						Haunsh	+1		÷		- 64	(r
7						Port Matilda	14		+			ï
7					4.4	Marthu	14		4			2
		- 5	38		6.6	Jullian	11		÷			5
6					4.4	Unionville	14		2			4
6	47	- 6	18		4.4		. 14		2			2
6	43		15		54				3		1	2
6	33	5	05		8.6		6.6		2			
6	23	4	155		5.4		**		2			- 62
6	12	- 4	45			Curtin	6.6		0			1
1	0.8	4	411						2			2
6	00	4	31						2			3
ŝ,	50	4			1.4							4
		- 4				Reach Creak	0			1.5	10	5
	H	$\begin{array}{c} \mathbf{E} \mathbf{A}  7  7$	$ \begin{array}{c} \mathbf{E}_{3,p}, \ \mathbf{M}_1 \\ \mathbf{F}_{3,p}, \ \mathbf{M}_2 \\ \mathbf{F}_{3,p}, \ \mathbf{F}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Exp. Mail.         WETWRED.         East           K.M. P. H.         Arrive at Tyrone L         56         62	Exp. Mail.         WESTWARD.         Relevance           K.M. P. R.         Arrive at Tyrone Leave         SarWard           750         6.22         Arrive at Tyrone Leave           750         6.25         Lave East Tyrone Leave           750         6.25         Lave East Tyrone Leave           746         6.21         " Vall           742         6.03         " Hautsah           727         5.55         " Port Mathda           728         6.35         " Julian           605         5.35         Julian           605         5.35         " Julian           647         5.18         " Snow Shoe In           643         5.15         " Milesburg           643         5.15         " Milesburg           643         5.05         " Ballefonte           623         4.55         " Milesburg           613         4.65         " Cartin           608         4.00         " Howard           6.50         20         " Howard	Exp. Mail.         WESPWARD.         KANTMARD.           X.M. P.M.         Arrive at Tyrone Leave           7.60         6.22         Leave East Tyrone Leave           7.60         6.22         Value         *           7.60         6.25         Leave East Tyrone Leave         *           7.45         6.21         Yalue         *         *           7.45         6.21         Yalue         *         *           7.25         6.30         Haumah         *         *           7.25         5.55         *         Port Matilda         *           7.11         5.47         Martha         *         *           7.05         5.58         Julian         *         *           6.05         5.27         Uniowille         *         *           6.05         5.27         Uniowille         *         *           6.35         5.15         *         Michard         *         *           6.33         5.05         *         Eatlefonte         *         *           6.13         4.43         *         Curtin         *         *           6.05         4.43         *	Exp. Mail.         WESTWARD.         RATTARD.         RATTARD.           K.M. P. M.         Arrive at Tyrone Leave	Exp. Mail.         WESTWARD.         Experiment of, 18711           K.M. P. H.         P.         Formation of the state of the	K1D.         WESTWARD.         EARTWARD.         FXP. M.           7 Mo         6 32        Arrive at Tyrone Leave7 108         8           7 Mo         6 32        Arrive at Tyrone Leave7 108         8           7 Mo         6 32        Arrive at Tyrone Leave7 108         8           7 Mo         6 42

.

.

DENNSYLVANIA RAILROAD. er Decaritie

of this school to help to secure it by furnishing intel-ligent and efficient teachers for her schools. To this end it solicits young persons of good akiifiles and good purposes—those who deairs to improve their films and their talents, as students. To all such it promises all in developing their powers and abundant opportunities for weil-paid labor after leaving school. For catalogue and terms address the Principal. W.M. BIOLER, President Board of Trustees. E. MILLE MocCompress, Secretary. BOLD OF TRUSTERS: Clinton county—8. D. Ball, T. C. Hipple, Dr. J. H. Barton, A. H. Best, Jacob Brown, E. P. McCornick, A. N. Raab, W. W. Rankin, R. G. Cook, Samuel Christ, G. Kintzing, S. M. Bickford, H. L. Diedenbach, J. C. C. Waldey, Jesse Merrill, S. Miller McCornick. Centre—Exdow. A. G. Cherlin. Clearfield—Ex-Gov, William Bigler. p. 27-1y after December 12, 1877: WESTWARD. ERIE MAIL leaves Philadelphia... " Harrisburg... " Ultiamepert... " Lock Haven... NIAGARA EXPRESS Passengers by this fonte at. FAST LINE leaves Philadelphia. Harrieburg. Williamstroot EASTWARD. PACIFIC EXPRESS leaves Lock Haven. 6 40 a m 7 55 a m 11 55 a m arrives at Harrisburg... Philadelphia DAY EXPRESS loaves Renovo. BOOK and JOB OFFICE ress East, make close connection as b B. K. V. B. B. trains, is Mail East and West connect at Eric with trains is Mail East and West corry with O. C. & A. V. R. S. & M. S. R. E., at Corry with O. C. & A. V. R. V. & P. R. B., and R. Erie Mail East and West connect at Erie with trains on L. S. A. M. S. R. E., at Corry with 0. C. A. A. V. R. R., at Emporium with B. N. Y. A. P. R. R., and at Driftwood with A. V. R. Parlor cars will run between Philadelphia and Williamsperion Niagara Express West, Erbress West, Philadelphia Express East, Stepping cars on all night trains. Gen'l Superintendent. USINESS CARDS, INVITATION CARDS, CARTES DE VISITE, CARDS ON ENVELOPES, 1879. THE PATRIOT. 1879.

# Get Up a Club and Receive Your Paper Free.

The DAILY PATRIOT will be sent by mail to clubs at the following rates : \$6.00 per copy per year to a club of five. \$5.50 per copy per year to a club of ten. \$5.00 per copy per year to a club of twenty. \$4.50 per copy per year to a club of thirty. \$4.00 per copy per year to a club of fifty. And one copy free for one year in every case to the person getting up the club. Proportional rates for arts of a year. The WEEKLY PATRIOT will be sent by mail at the following rates : \$2.00 per annum for single copy. \$1.10 per annum per copy to a club of four \$1.25 per annum per copy to a club of eight.
\$1.00 per annum per copy to a club of fifteen,
\$0.9 ) per annum per copy to a club of thirty. \$0.85 per annum per copy to a club of fifty \$0.75 per annum per copy to a club of any. And one copy free for one year in every case to getter up of club.

early planting next spring, should see to it that they have a liberal supply of good soil on hand before winter sets in. There is no better way to secure this than to make a pile of sods from some rich, sandy spot, with a liberal mixture of manure from the cow-stable or pig-pen, in some convenient corner of the garden, and wet it frequently with the soap-suds and chamber-slops from the house. For flowers it would be well to add a portion of leaf-mould from the woods. Turn and mix a few times during the fall, and before winter sets in put away in old barrels or boxes for convenient use when wanted.

SECRETARY EDGE, of the State Board of Agriculture, to whom Governor Hoyt has deputed the power placed in him by the acts of 1866 and 1879 for the prevention of the spread of pluro-pneumonia among neat cattle, has taken hold of the work with that it must be put in practice in the usual degree of energy. He has just issued a circular letter to owners of cattle, common carriers, veterinary surgeons and others, requesting them to report to him all cases of disease among cattle supposed to be contag-

### Soiling vs. Grazing.

#### THE VIEWS HELD ON THIS SUBJECT BY A LEADING FARMER NEARLY SIXTY YEARS AGO.

The Farm Journal for August publisher, Major Freas, of the Germantown Telegraph, in 1832. David Lloyd, a practical farmer of that day, was the author. From his essay on soiling we make the following extract. It is brief, but true and pointed :

When horses, cows and hogs are manure collected together and taken care of, the armer will find himself A roller will break many. in possession of one-third more ma-

nure at the end of August, than he could have had, if he had grazed his farm. Instead of manuring ten acres, he manures fifteen ; and every year his farm produces more grain, hay, straw, and manure, of course.

This system of farming is so consistent with good sense and economy this country at some future period; but it is not likely that anything less

than necessity will induce people to put it into general practice. In years to come, when the population in this country becomes dense, and the plan-

tardeits growth.

plowed early were in excellent condiprints extracts from a little work on agriculture, printed by the veteran hard and dry as the middle of the road, and it was impossible to get them in fair condition.

> Wheat requires a fine and mellow soil, it is best if compact below and roughish on the top. If there are any clods, these should be brought up from below by repeated harrowings, and broken by the roller or the

disk harrow. If they cannot be all kept in stables or pens, and their broken up completely they are better on the top than below the surface.

> The mechanical effect of summer fallowing, especially in heavy lands, is quite noticeable, and its benefits are distributed over a series of crops. Where a summer fallow is consider

ed too expensive, the plowing done in June before the weeds have matured their seed is frequently followed with cultivating the land by keeping the surface raw all the time, with good results.

than necessity will induce people to put it into general practice. In years to come, when the population in this country becomes dense, and the plan-tations divided into small farms, the materials for fencing scarce, the land then necessity for improving ious or infectious. All reports of supposed infection should be made dear, and the necessity for improving it greater—farmers will necessarilly ing the wheat in 16-inch rows, by direct to Mr. Edge, and all interested be led to the method of soiling cattle.

To raise good crops of anything, "Give good cultivation, put on plenty of manure, and then-a little more manure."

Poultry guano is worth, if kept under cover, almost as much in price as Pacific g. ano, which sells at \$60

TTT S25 SEWING

ounted upon fine polished or oiled blac ble and treadle, complete with a LARGE then any other machine, and <text><text><text><text><text><text> able and trendle, complete with a LANGE accord of FIXTURE than any other machine, and Reduce nly 825. Each machine thoroughly warranted NEUTER GUARATES for five years. Heylin order or CHARGE, money refereded at once if not satisfies The most solid, reliable, and satisfactory may ver invented for all kinds of family work. At investigate discontant of family work.

The cash must accompany all orders to insure attention. All money should be sent by post office order or registered letter, otherwise it will be at the sender's risk. Address

> PATRIOT PUBLISHING CO. Harrisburg, Pa.

#### PATENTS AND TRADE-MARKS.

TRADE-MARTINE NOTATION NOT THE ADDRESS OF THE ADDRE nts, foreign n appertaining to Inventions or Paten cure Patents in Canada and other

are procure fatents in Canada and other foreign countries. Caveats Filed, Copyrights obtained, and all other unsiness transacted before the Patent Office and the Courts which demands the services of experienced Patent Attorneys. We have had ten years experiences as Patent Attorneys.

#### THE SCIENTIFIC RECORD.

All Patents obtained through our agency are noticed in the Scurverire Revers, a monthly paper of large circulation, published by us and devoid to Scientific and Mechanical matters. It contains full lists of all allowed Patents. Superciption 20 costs a year, post-paid. Specimen corp sent free. Send us your address on postal care.

#### INVENTORS

Send us a description of your Invention, giving your text in your own language, and we will give an oplinion as to jatentability, with full instructions, charging nothing for our asivice. Our biok, "How to procure Paients," about the Patent Laws, Patents, Cavoats, Trade Marks, their costs, &c., sent free on request.

ADDRESS : R. S. & A. P. LACEY, PATENT ATTORNEYS,

No. 604 F Street, WASHINGTON, D. C., Nearly Opposite Patent Office.

Arrears of Pay, Bounty and Pensions.

We have a Bureau in charge of experienced lawyer, and clerks, for prosecution of all Soldier's Claims, Pays Bounty and Pensions. As we charge no fee unless I, stamps for return postage should be sent 1-4f B. S. & A. P. LACEY,