

# THE ARROW

ART  
INDUSTRY  
SCIENCE

Publication of the United States Indian School, Carlisle, Pa.

Vol. II

FRIDAY, JULY 27, 1906.

No. 48

## MY GRANDPA.

My grandpa says he was once  
A little boy like me.  
I's'pose he was and yet it does  
Seem queer to think that he  
Could ever get my jacket on,  
Or shoes or like to play  
With games and toys and race with Duke  
As I do every day.  
He's come to visit us, you see;  
Nurse says I must be good  
And mind my manners, as a child  
With such a grandpa should,  
For grandpas straight and tall,  
And very dignified;  
He knows most all there is to know,  
And other things beside.  
So, though my grandpa knows so much,  
I thought that maybe boys  
Were things he hadn't studied,  
They make such awful noise.  
But when I asked at dinner for  
Another piece of pie,  
I thought I saw a twinkle in  
The corner of his eye.  
So, yesterday, when they went out  
And left us two alone,  
I was quite so much surprised  
To find how nice he'd grown.  
You should have seen us romp and run!  
My! now I almost see  
That perhaps he was long, long ago,  
A little boy like me.

—N. W. Christain Advocate.

## WHOLESOME MILK.

Frank Overton, M. D.

MILK as it exists within a healthy cow is almost certainly wholesome. Its contamination and its souring take place because foreign substances fall into it after it leaves the cow. These substances are within the easy control of man, and sour or unwholesome milk upon a farmer's table is a sign either of laziness, or more probably, of ignorance.

Any kind of dirt in milk is unwholesome, but the kind of contamination that does practically all the harm may exist with apparent cleanliness, for it is due to the entrance of living microbes some of which sour the milk. And yet the most unwholesome germs are not those that make the milk sour, but since the souring germs are almost always present with other kinds they may be considered reliable signs of the presence or absence of other germs.

No process of entirely excluding the microbes has been found unless it be the impracticable one of using mechanical milkers. The few germs that may enter after every precaution has been taken, may multiply within a few hours and sour the milk unless proper care is taken immediately after milking. If this care is given, milk from a barn that is dirty may be kept in better condition than that which has been drawn with every precaution and neglected afterward. The required care is simple and almost self-evident, and the wonder is that anyone should neglect the almost common-place precautions. Let us consider these measures in the order in which they arise in the course of an evening's milking.

### Cleanliness of Containers.

Of course everybody washes the milk

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SPRING AT THE FARM.

pails and cans and pitchers, but not every one digs out the deposit that forms in the corners and under overhanging rims. Yet these deposits contain an assortment of the germs that have grown in the previous batches of milk. They are like chunks of yeast and start up souring in the milk in the same way that yeast makes bread ferment. Even though the germs are scalded to death new ones soon fall on the deposit and then conditions are as bad as ever. Cleanliness of every hidden corner is the only condition that is safe.

Another neglected precaution is in drying the pails and cans. Too often they are rinsed in a small amount of water that is poured from can to can until the water is cloudy with milk, and then they are hung bottom side up to dry. The drops that remain may still contain enough to sour, and in drying they leave their germs in the tiny spot that remains on the can. The remedy is to use a large amount of rinsing water, and to wipe the cans dry with a clean towel.

The ordinary method of exposing the pails to the sunlight is a good one except that instead of turning them wrong side up, they should be stood upright so that the sun may enter their inside where the milk is put.

Still another neglected precaution is the

care of dish cloths. It is common to find the washing utensils offensive to sight and smell and epidemics of typhoid fever along particular milk routes have been traced to this cause. All brushes, dish cloths and towels should be cleaned, scalded, and dried each morning and night.

Under ideal conditions milk needs no straining, but the amount of hair and dirt that is strained out of ordinary milk is incredible, and at least as much more smaller particles pass through the meshes of a wire gauze or cheesecloth strainer. No strainer is absolutely effective, but a layer of absorbent cotton will remove a large proportion of the fine dirt. A practical method is to pour the milk through a funnel that is loosely packed an inch or two deep with the sterilized absorbent cotton that may be bought at any drug store.

### Cooling the Milk

Probably the most important precaution that can be taken with milk is to cool it as quickly as possible after it is drawn. At a temperature of 60 degrees F. and lower the germs grow but slowly. Ordinary well or spring water has a temperature of between 50 and 60 degrees F. If the farmer has an open water supply he also has his refrigerator that is cooler than the ordinary ice box. If the cans are lowered into the

spring or well as soon as possible after milking, the milk will be cooled before the germs can have time to begin their growth. The proof of the effectiveness of the plan is seen on country milk routes where on the morning rounds, evening's milk that has been cooled in this manner and warm morning's milk are carried in separate cans. Customers demand the warm morning's milk as a guarantee of purity, and yet the cold evening's milk invariably keeps the better.

If the germs in milk that is produced under ordinary conditions are killed within two or three hours after milking, the milk will keep well and may be used for nearly all purposes. In order to kill the microbes it is not necessary to boil the milk. A temperature of 180 degrees F. sterilizes it from all but a few rare germs and at the same time leaves it as palatable as fresh milk. In some creameries ordinary farmer's milk is run through a thin pipe one end of which is hot and the other end cold. Within half a minute the milk is heated and then cooled. Such milk is safe and wholesome. Doubtless this method of treatment will be increasingly used. The principle is the same that is applied in canning fruit. If the milk were sealed against new germs it would keep as well as condensed milk.

Milk preservatives are mentioned only in the strongest condemnation. They are all poisons which are designed to kill the germs in the milk. They restrain but do not prevent. (Continued on the last page.)

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A Paper Devoted to the Interests of the Progressive Indian, only Indian Apprentices doing the type-setting and printing.

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## PROVERB.

Order is heaven's first law.

## PACIFIC COAST INSTITUTE.

The Pacific Coast Institute will be held at Tacoma, Washington, August 20 to 25th, and an interesting and instructive program has been arranged. The opening session will be held Monday evening, August 20th and on each morning thereafter a general session will be held, at which subjects of interest to all will be discussed by Indian school workers. The evening sessions will be devoted to addresses by persons prominent in educational work. In addition to the morning and evening sessions, round-table conferences will be conducted by the following departments: Officials and superintendents' section, physicians and nurses' section, teachers' section, matrons' section, and industrial section. This will afford an opportunity for the informal discussion of subjects of special interest to the respective sections, and for the mutual exchange of views and experiences as to methods and systems. This departure from the usual program will undoubtedly prove interesting as well as helpful.

Specimens of drawings and class-room work from the Tuskegee Normal and Industrial Institute will be exhibited at the teachers' sectional meetings, illustrating the methods employed there and the practical character of the instruction. Model classes, with Indian pupils, will also be conducted at these meetings by experienced teachers.

The music will be under the direction of Harold A. Loring, Supervisor of Native Music, who will arrange a novel and entertaining program.

Tacoma is one of the modern cities of the Northwest, and has a population of about 70,000. The cool breezes from the bay make it an ideal meeting place, and it is anticipated that the attendance will be the largest in the history of the Institute.

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## NEWS FROM EDISON.

THOMAS A. EDISON has furnished the world with a large amount of news, first and last. The most important applications of electricity to the work of the world have been made by Edison. He is a wizard, a worker of wonders, a dealer in the magic of forces by which the world is moved, by which the industrial conditions of the century are readjusted. Therefore when it is announced that Thomas A. Edison has news for the world, the world listens with all its ears.

In an interview published in the Asheville Citizen Mr. Edison says:

"There is a vein of cobalt running from a point just east of Asheville, Tennessee, into this State. My discovery means a revolution in the electrical world. I can reduce the cost of city traffic fifty-five per cent and cut the weight of storage batteries in half. I have found cobalt in Lincoln, Gaston, Shelby and Jackson counties. I made assays of the mineral in many places, and I found the quality to be just what I was looking for. The electric vehicles have been under a great handicap because of the heavy storage batteries we have been forced to put into them. When I can equip an automobile with the cobalt system the storage battery weight will be one half, and when the price is reduced so as to place electricies within the reach of everybody the horse will be a thing of the past. I have left a force of men in four counties in this State where I found cobalt, and they will make a thorough investigation. I may possibly return later in the summer. I am confident that what I have found here will enable me to create a new vehicle."

The use of cobalt promises a maximum of power with a minimum weight, according to Mr. Edison, and if his discovery is as important in its outworking as he believes it will be, the days of the horse are indeed numbered.

"What next, after the automobile?" people have been asking.

And Mr. Edison's answer is the cobalt system by which the cost of the automobiles will be reduced one-half and the electric motor vehicle put within the reach of everybody.—*The Argus.*

NEW WORLD'S  
LINOTYPE RECORD

Salt Lake Operator Sets 106,300 "ems"  
in 7 Hours 52 Minutes

Charles A. Nichols, an employe of the Salt Lake Herald, broke the world's record for linotype composition last night, finishing at an early hour this morning. Nichols set 106,300 "ems" of nonpareil type, corrected, in seven hours and 52 minutes, actual working time. The previous record for eight hours was made by Taylor and Green in Chicago, in 1896. Nichols' average per hour for the entire night was 13,287 "ems," which exceeds the world's record for an hour.

The type set takes up 340 inches of a standard width newspaper column and 127 pounds of metal cast, and would be the work of 10 men if type was set out of case by hand.—*Selected.*

J. A. STAMBAUGH

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HATS TRIMMED FREE OF CHARGE.

## Miscellaneous Items

➔ Minnie Rice has gone to Asbury Park for the summer.

➔ A new outfit of fine spring beds have been installed in the hospital.

➔ Miss Moul's father and mother spent last Sunday evening with her.

➔ Lapolia Cheigo is spending a week with Mrs. Beitzel in Carlisle.

➔ Miss Sadie Robertson left yesterday for Shawnee, Oklahoma, on her annual leave.

➔ Mary Goodboo, who is out in the country, says she is enjoying her place.

➔ James Thorpe and Isaac Gould have finished gray-washing the school building.

➔ Mr. Lau and his wood-workers have built a fence dividing the yard at the near farm.

➔ Alexander Sage, who works on the Kutz farm, says they are through with harvesting.

➔ Wilbert Deon, a small boy, ran a thorn in his foot a couple days ago. It was quiet painful.

➔ Miss McMichael, who is spending her vacation at her home in Monroe, Iowa, writes that she is well and increasing in weight.

➔ While at Pen Mar recently Miss Eckert saw Mabel Logan and Sophia Dextator. They both have good homes and are looking well.

➔ A letter has been received from Rosabelle Patterson, who is out in the country, stating that she is enjoying good health and has a nice home.

➔ Mrs. Canfield left last Saturday for Oklahoma where she will spend her vacation with her own people. She will also visit friends in Chicago.

➔ David Jacobs spent a few days with the camping party at Craigshead this week. George Lavata and Judson Bertrand left yesterday for a few days recreation there. They will return Sunday.

➔ Dr. and Mrs. Shoemaker received a nice letter from Christie Jackson who recently went to her home in Hogsburg, New York. Christie is very enthusiastic in her praise of the training she received at Carlisle.

➔ A very interesting game of base ball was played last Tuesday evening on the new field between the Easterners and the Westerners. It resulted in a tie score at the end of the ten innings, each team having scored two runs.

➔ The stereopticon lecture on "The Pilgrims Progress" given last Sunday evening in the Auditorium by the Rev. J. M. Johnson was greatly enjoyed. Rev. Johnson's 13 year old daughter sang several songs and was accompanied on the violin by her sister.

➔ In a letter to a friend, Susie Whitetree says, "I certainly did find a good home; both Mr. and Mrs. Gehris are as nice as they can be and they do everything they can to make us happy."

Susie is a member of the Senior Class and we are glad to know that she is having a pleasant summer and one which will make her all the better prepared for her work in the fall.

➔ The letters which the little girls in the country write to their friends here are one of the best evidences of the the good training they have had in the Normal Room. A few days ago one of the employees received a letter from Susie Poncho in which the language, spelling and penmanship were remarkably good considering that Susie was unable to speak a word of English when she came here less than two years ago.

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## THE RING OF THE ANVIL

No more on the breeze  
Shall we nourish the ring  
Of the smith, with his bang, bang, bang;  
And the anvil's song  
Will no more prolong  
With its clang'ry, clang, clang.  
They're moving the shop  
To a remote spot  
Way back in the end of the yard;  
And the toiler's ring  
Will no more bring  
Sweet notes from the blacksmith's bard.  
No more can we lis'  
To the chimes of the bell  
And the silver accents of its voice;  
And no more 'twill subdue  
That feeling of blue  
And cause dull hearts to rejoice.  
The trees are all sighing  
And bowing their heads,—  
The birds have no rivals to-day.  
For the clang'ry clang  
Of the blacksmith man,  
The movers are taking away.

➔ Supplies continue to arrive daily.

➔ Mr. Gottworth has returned from a few weeks' leave.

➔ Miss Bowersox has returned from Atlantic City.

➔ Clarence Woodbury is recovering from a sprained ankle.

➔ Major Mercer has received a fine blood-ed colt from the south.

➔ Jesse Youngdeer left last Friday morning for Point Pleasant, New Jersey

➔ Several new borders and new type have been received in the print shop.

➔ Miss Gaither, girls' field agent, came in Thursday looking as brown as a berry.

➔ Robert Tahamont comes here from Newark, N. J., to enter as a student.

➔ Lizzie Wolfe, who has been on the sick list for several days, is improving rapidly.

➔ The cut on page three is the latest of our band which is making such a good record at Long Branch.

➔ Jack Jackson, who went out with the first party to the country, writes that he is getting along very well.

➔ Mrs. Gosman, mother of captain Gosman, who has been visiting Major and Mrs. Mercer has returned to her home.

➔ Dora Allen came in Tuesday to spend a few days with her sister, Mercy. The latter will soon return to Alaska.

➔ Miss Hawk, who has been at Knoxville, Tenn. for the past month, came in Monday and left on Wednesday for Laguna, New Mexico where she will join Miss Goytney.

## Industrial Notes

➔ Henry Gordon is in charge of the tin shop.

➔ Work is progressing on the water tower at No. 1 farm.

➔ The painters have finished graywashing the academic building and are now painting the south windows.

➔ The painters are at work in the small boys' quarters, at the Academic building, and at the addition to girls' quarters.

➔ The sewing girls have finished the girls' summer dresses and are now working on check and madras shirts and other things.

➔ The engine and pump which have been installed at farm No. 1, are located on the right bank of the spring which is shown on the first page.

➔ The carpenters are building an extension to the southwest porch of the dining hall to make a special room where the girls can prepare vegetables for cooking.

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is the reason the Sales are on the increase.

So we say—The right place for correct styles is the Imperial Dry Good Store.

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## THE NATIONAL HYMN

Dr. Henry Van Dyke has added two new verses to "America," fitting it to wider needs than were apparent when it was written:—

I love thy inland seas,  
Thy capes and giants trees,  
Thy rolling plains,  
Thy canons, wild and deep,  
Thy prairies' boundless sweep,  
Thy fertile mains  
And rocky mountains steep.  
Thy domes, thy silvery strands,  
Thy Golden Gate, that stands  
Afront the west,  
Thy sweet and crystal air,  
Thy sunlight everywhere,  
Oh, land beyond compare,  
I love thee best.

THE CHRISTIAN REGISTER.

(Continued from first page.)

vent the growth of microbes. They are as poisonous to man as to the germs, and their use is entirely without justification.

There is one condition under which the sterilization of milk may be carried too far and that is in butter and cheese making. Butter that is made from germ-free cream tastes like lard and the cheese like wax. The peculiar flavors of butter and cheese are due to peculiar germs. Experimenters are working on the problem of growing the particular germ that may be desired, to the exclusion of all others so as to produce a pure and uniform flavor. At present cream is allowed to stand for a day or more for ripening, by which is meant the growth of ordinary microbes. Still the method of restraining the growth of the germs as far as possible applies to the farmer's dairy, and all too many germs will grow in his milk in spite of his best precautions.

The greatest need for care of milk is when a baby is fed on cow's milk. Milk that agrees with a baby may safely be used for any other purpose. Here are some practical rules for the care of a baby's milk:—

1. Take a clean pail to the barn immediately before milking, and take it away as soon as it is filled.
2. Strain the milk through a funnel that is packed with sterilized absorbent cotton.
3. If the milk is to be used within three hours, cool it at once at least as cool as fresh well water.
4. If the milk is to be kept for some hours, heat it slowly to a point just below boiling and immediately cool it and keep it cold.

Farming

## FROM MANY COUNTRIES

Apricots are indigenous to the plains of America.

Pears were originally brought from the East by the Romans.

Capers originally grew wild in Greece and Northern Africa.

The walnut is a native of Persia, the Caucasus and China.

The clover is a native of the Malacca Islands, as is also the nutmeg.

Vinegar is derived from two French words, vin agre, sour wine.

Cherries were known in Asia as far back as the seventeenth century.

Garlic came to us first from Sicily and the shores of the Mediterranean.

Asparagus was originally a wild sea-coast plant, and is a native of Great Britain.

The tomato is a native of South America, and it takes its name from a Portuguese word.—*The Press.*

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BODY—Has poplar panels, ash sills and seat frame, well braced and full ironed with oval edge irons on top of panels. Corners are screwed, glued and plugged. Wide seats, comfortable and easy riding backs.

WHEELS—Sarven or Warner patent, best quality.

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SPRINGS—Five leaf, elliptic, oil tempered steel.

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TRACK—Narrow, 4 feet 8 inches, or wide, 5 feet.

TOP—Canopy top covered with oil back duck, with 28 oz. blue back rubber curtains.

TRIMMINGS—Hand buffed leather. Spring cushions and backs.

PAINTING—Each coat of paint is thoroughly rubbed before the next is applied. Only the highest grade paints and varnishes are used. Fourteen coats are used in the process of painting. Body is plain black. Gears are black and red. Painting will be done in other colors if desired. Poles are best hickory, full ironed and braced. Shaft will be furnished in place of pole if desired.

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## THE DANDELION

It Adapts Itself To All Soils And Climates  
Of The Earth.

The dandelion belongs to the largest, oldest and most widely diffused order of plants. While other orders of plants have died out and become mere fossil remains in the rocks, this order has survived the geological changes of many different periods on account of its power of adapting itself to those changes. And these changes in their turn have only made it better suited for all the varied soils and climates of the earth of the present day.

We find members of this order in every part of the globe, in places as far apart from each other as they can be. It is the prevailing and dominant order of vegetable life, the most highly finished and the most successful family of plants. And the dandelion is one of the most perfect forms belonging to it.

It is the head and crown of the vegetable kingdom as man is the head and crown of the animal creation, and it is curious how this highest type of plant is always found only where man, the highest type of animal life, is found and where he dwells and cultivates the soil. It is never found apart from him. It follows him wherever he goes—to America, Australia and New Zealand—and there in the new home it becomes a silent but eloquent reminder of the dear old land he may never see again.—*Exchange*

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ARTIFICIAL FUEL TO TAKE  
PLACE OF COAL—FAR  
CHEAPER.

THE labor and patience of two Cumberland county citizens have been crowned with success and all the anxiety over the scarcity of coal through several causes will be changed into contentment, for Daniel Drawbaugh and Dr. R. E. Gamble have secured a fuel to take the place of coal. This fuel is manufactured from chemicals and culm fibrous matter and is much lighter in weight than coal. It will take about two tons of artificial fuel to make one of natural, but the artificial will give the same if not a greater amount of heat.

The artificial fuel is made in moulds of all sizes and like coal can be had either hard or soft. At present the fuel is manufactured at Bowmansdale and as soon as the final papers are secured for the patent it will be placed upon the market.—*The Sentinel.*

WHEN HUNGRY STOP  
AT

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RESTAURANT AND ICE-CREAM  
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Fresh Bread, Rolls  
Cakes and pies  
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FOR CAKES, PIES, ROLLS  
and any thing to order, go to

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## SEASONS OUT OF SEASON.

I love the sultry summer,  
Ah, yes, indeed, I love  
The days when the thermometer  
Is eighty—some above.  
When everybody fans and fumes  
About the awful heat  
That scorches till it nearly melts  
The pavement in the street.  
I love the frosty winter,  
The time of ice and snow,  
When the thermometer drops down  
To fifteen points below:  
When winter winds with bellowing roar  
The hills and valleys sweep,  
And on the walks "the beautiful"  
Lies drifted three feet deep.  
And still I am not happy,  
My days seem out of rhyme;  
I cannot love the proper thing  
At just the proper time:  
For, oh! it's in the winter when  
The summer seems so dear,  
And winter isn't any good  
Till summer time is here.

THE WATCHWORD.

THE APPRECIATION OF  
HEROISM

WE can doubtless measure the degree of a nation, and a people's enlightenment by their appreciation of the virtue heroism. A sad decline must smite a race before it can forget where its benefactors sleep and permit their monuments to decay. It will be found that degenerate people forget the very names of heroes and no longer sing their deeds, but this cannot be charged against a nation in full vigor and virtue. It was in the splendid noonday of Athenian glory that poet and orator, painter and sculptor, historian and philosopher joined in portraying the deeds of Grecian heroes. It was in the golden age of Augustus that highest honor was paid to every record and tradition of Roman heroism. But when Athens fell before Rome, and Rome before the barbaric Northman, those classic nations had even forgotten where the tombs of their dead heroes were, hence they had no living heroism and were fit to perish.

The appreciation which the people shows for the heroism of the past becomes the inspiration of present and of future heroism. The Revolutionary fathers were inspired by the records of the Pilgrims, their sufferings, toils, and sacrifices for conviction's sake and truth's. So the deeds of our Revolutionary fathers had been told again and again in every city and hamlet, every mansion and cottage, every schoolhouse and pulpit of the country. Therefore when mighty hosts of heroes and patriots were wanted to save the Union they sprang up from every State, village, school district, and fireside, ready to emulate the heroism of their sires and grandsires in protecting the liberties which they had won.

The best nations of the earth today are those which are intelligent and high-minded enough to appreciate the men who have wrought out of self sacrifice some common good, the men who by toil and suffering have left blessing of peace, truth, and freedom to their fellow-men. Moreover, the people who appreciate benefactors, produce and reproduce them.—*Glen Mills Daily.*

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