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THE HURON SIGNAL, FRIDAY, SEPF. 27, 1989

How an Axe is Made.

What Invention Has Done.

Talmage on Says. I am sorry to may that hoys are not fourteen years of age the mesculine as-ture is a mixture of mischief, and semi-tureness, and spusk, and fun, and trouble, twomess, and spusk, and fun, and trouble, the world fails to analyze. A little girl is defuable. She hughs when she is pleased, crise when she feels hadly, pouts when she is cross, and eats when she is pleased, crise when she feels hadly, pouts when she is cross, and eats when she is pleased, crise when she feels badly, pouts the month of the menufacture of four modern the month of the menufacture of four modern the month of the menufacture of four modern the menufacture o The largest are factory in the world is in operation in Pittsburg and is capable of turning out 3,000 or more ares a day. The following description of how an are is made we condense from the Pittsburg

Entering the main workshop the first step in the operation which is seen is the formation of the axe-head without the blade.

hungry. Not so with a boy. He would mather go a-nutting than to eat, forgets at the fish pond he has not had his din-ner, often laughs when he feels bedly. and looks submissive to an imposition practised upon him, till he gets the per-petrator alone in the middle of the road and tumbles him into the dirt, till his the fellow imagines that before his time he has returned to dust. A boy, under a talm exterior, may have twenty emotions struggling far ascendancy. Especial ly do I feel for a boy who has more fan aboard then he can master. How well I remember the country school-house where we all had to be sedata, though one boy would make a face enough to put the whole school in danger of run-nung over with giggle. It s an awful The glowing fist iron bars are with-drawn from the furnace and are taken to a powerful and somewhat complicated machine, which performs upon them four distinct operations—shaping the metal to form the upper and lower part of the axe, then the eye and finally doubling the piece ever so that the whole can be welded together. A work-man stands by, seizing the partially fash-ioned pieces one after another with a pair of tongs and hammering the lower edges together. Next the iron is put in a powerful natural gas furnace and heat-ed to a white heat. Taken out, it goes under a tilt hammer and is welded to-gether in a second. This done, one blow from the "drop" and the poll of the axe is completed and firmly welded. Two crews of men are doing this class of work and each crew can make 1,500 axes The glowing flat iron bars are with-In nailing on shoe heels one worke rork and each crew can make 1,500 axes

and a boy, with machinery, can heel 300 pairs of shoes per day. It would require five workers to do the same by hand. per day. When the axe leaves the drop there is some superflueus metal still adhering to the edges and forming what is techni-cally known as a "fin." To get rid of this fin the axe is again heated in a The horse-power of steam used in the United States on railways, steamers and in factories and mines, was in 1888. 12, 100.000, against 1,620,000 in 1850. furnace and then taken in hand by sawyer, who trims the end and edges Is stave dressing twelve laborers, with The operative has a glass in front of him a machine, can dress 12,000 staves in the to protect his eyes from the sparks, which fly off by hundreds as the hot same time that the same number of workers by hand could dress 2,500 metal is pressed against the rapidly re-volving saw. The iron part of the axe In the cutton mills of the United is now complete. The steel for the blade, sfter bein States the manual labor has been reduc-

ed about 50 per cent. Now one weaver manages from two to ten looms, where heated, is cut by machinery and shaped with a die. It is then ready for the formerly one loom was tended by one welding department. A groove is cut in the edge of the iron, the steel for the In the manufacture of brick improved devices save one-tenth of the labor, and blade inserted, and the whole firmly welded by machine hammers. Next welded by machine hammers. Next comes the operation of tempering. The steel portion of the axe is heated by being inserted in pots of molten lead, the blade only being immersed. It is then cooled by dipping in water and goes to the inspector. An axe is subjected to rigid tests before it is pronounced per-fect. The steel must be of the required temper, the weight of all axes of the same size must be uniform, all must be-ground alike and in various other ways in the manufacture of fire brick 40 per cent. of the manual labor is displaced. In the manufacture of carriages it used to take one man thirty-five days to make a carriage. It is now made by the aid of machinery with the work of one In the manufacture of agricultural implements 600 operatives, with machin ery, including eighteen classes of wage-sarners, do the work of 2,145 wage earnsame size must be uniform, all must be ground alike, and in various other ways conform to an established standard. The inspector who tests the quality of the steel does so by hammering the blade and striking the edge to ascertain whether it be too brittle or not. An way that breaks drains the tast is theorem ers without machinery, displacing 1,545 The introduction of machinery in the manufacture of children's shoes during the past thirty years has displaced six times the manual labor now required, and the product of manufacture has been reduced 50 per cent to the consumer.

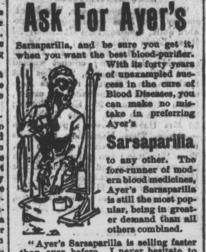
ide to be made over. Before the material of an axe is in the In the manufacture of wall paper on In the manufacture of wall paper one worker, by the aid of machinery, does the work of a hundred workers by man-ual labor, and in cutting and drying pa-per by machinery four men and four operators do the work of 100 operators by cld matheda hrough the hands of about forty work

On the Surface.

Boils, pimples, and skin diseases of all kinds speedily disappear when the blood is purified by the use of Ayer's Sarapa-rills. It has no equal as a tonic al-terative, the results being immediate and satisfactory. Ask your druggist for it and take no other.

of Burdock Blood Bitters will cure sait rheum, erysipelas, shingles, tetter. nettl rash, eczema, boils, pimples, or blotches, at the same time restoring the blotches, at the same time restoring the 2 2 UUTAVIUD MENUOMEDIA Warerooms-107 and 109 Church-st., Toron to. Factory, the finest in its equipments and appliances in the city, 89 to 96 Bellwoods ave. 11-

cently. Mr David Sanderson was un-loading oil in front of his store on Tues-



are offering Special Inducements in Tea and Coffee, and solicit your pat-

"Ayer's Sarsaparilla is selling faster than ever before. I never hesitate to recommend it." - George W. Whitman, Druggist, Albany, Ind. "I am safe in saying that my sales of Ayer's Sarsaparilla far excel those of Ayer's Sarsaparilla far excel those of ion."-L. H. Bush, Des Moines, Iowa. ronage. REES PRICE & SON.

"Ayer's Sarsaparilla and Ayer's Pills are the best selling medicines in my store. I can recommend them conscien-tionsly." - C. Bickhaus, Pharmacist, Roseland, Ill.

"We have sold Ayer's Sarsaparilla here for over thirty years and always recommend it when asked to name the best blood-purifier." — W. T. McLean, Druggist, Augusta, Ohio.

"I have sold your medicines for the last seventeen years, and always keep them in stock, as they are staples. "There is nothing so good for the youth-ful blood' as Ayer's Sarsaparilla."-B. L. Parker, Fox Lake, Wis.

B. L. Parker, Fox Lake, Wis. "Ayer's Sarsaparilla gives the best satisfaction of any medicine I have in stock. I recommend it, or, as the Doctors say, 'I prescribe it over the counter.' It never fails to meet the cases for which I recommend it, even where the doctors' prescriptions have been of no avail."-C. F. Calhoun, Monmouth, Kansas.



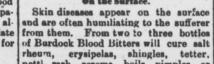
Price \$1; six bottles, \$5. Worth \$5 a bottle.

3 YEARS SYSTEM

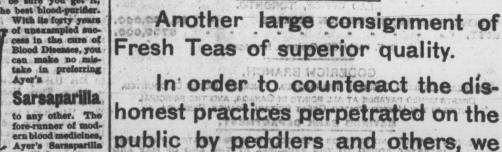
Robert Rielly has sold his farm in East Wawanosh to Robert Scott, for \$4500. Mr Rielly intends going to Manitoba.

axe that breaks during the test is thrown

proper shape it has been heated five times, including the tempering process, and the axe when finished has passed A regularly monthly, quarterly or half yearly payment (a slight advance on the ren-tal rate) buys the instrument. Any piano may be chosen out of a magni-forent assortment of U prights, Squares, and Grands, unsurpassed in quality and value. Ministers, Teachers, Government Officers, and those in roccipt of regular incomes will find this a convenient and advantageous mode for securing a first class instrument. When the instrument is used for practice, our Soft Stop or Practice Pedal saves wear on the nerves, as well as preserves the tone of the Piano. Our Patent Foot Pedal attachment for Pianos is invaluable to organist, su-dents, and teachers. Prices on application. Inspection invited toward perfecting it. After passing in-spection the axes go to the grinding day partment, and from that to the polishers, tho finish upon emery wheels.



There was a fall in oil in Gorrie re-



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We have no hesitation in saying the "Wirt" is t sidered a broad statement to make, but it is a fact possible to set out of order. It is the most easily athed in the ink. The "nih," being gold, *will well* "inh," when not in use, making it the most convet

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May 11th, 1887.

uffered for five years with disease, catarrh. Ber s of the worst known in these tried all of the catarrh remeaw advertised, but they were I finally procured a bottle of She has used only one half w feels like a new person. I duty to say that Nasal Balm TOO HIGHLY recommended troubles, and am pleased to h sufferers know through its

ill receive instant relief and CHAS. MCGILL Farmer



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o is abreast of the p to the mark. My that my efforts to

nost everything usgeneral public may every department. a Silk Goods I will Satin Merveillieux

2 Season.

Laces and Edgings, e leading items in

res and strictly one

MUNRO. aper and Haberdasher 1,400 to 1,500 still remain. It was planted 121 years ago, and the girth of the stem a foot from the ground is now he said he thought that "sparkin kin." A Rev Mr Bell was speaking, and he said he thought that "sparking" on Sunday was not exactly productive of the true spirit in which the day ought to be observed. Of course the young man and young woman made it all right with their own consciences by going to church and singing off the same hymn book, but he thought "sparking" ought to be strictly a week-day affair, even although he could not affirm that he himself had never done just a very little courting on 45 inches. Whereas

1m

put the whole school in danger of run-ning over with giggle. It s an awfol thing for a child not to dare to laugh them the merriment rises, and wells up till the jacket gets tight, and the body is a ball of fun; and he knows that if out of one of the ormers of his compress-ed lips a smicker should encape, all the boys would go off in explosion. I re-member times when I had at school such responsibility of repression resting on me and proyed unfaithful.—New York Observer.

Hay favor is a type of catarrh having peculiar symptoms. It is attended by an inflamed condition of the lining mem-branes of the nostrils, tear-ducts and

branes of the nostrils, tear-ducts and throat, affecting the lungs. An acrid mucous is secreted, the discharge is accom-panied with a burning sensation. There are severe apasms of sneezing, frequent attacks of headache, watery and inflam-ed eyes. Ely's Oream Balm is a reme-dy that can be depended, upon. 50cts. at druggists ; by mail, registered, 60cts. Ely Brothers, Druggists, Owego. New York. Iv

Marriage is a Failure. When there is too much sight key. When dinner is not ready at dinner

When the watchword is "Each for

When neither husband nor wife takes

When the children are given the neck

 When the children are given the neck and back of the chicken.

 When a man attempts to tell his wife what style of a bonnet she must wear.

 When a man's Christmas presents to his wite consist of bootyacks, shirts and gloves for himself.

 When the lord of creation pays more for cigars than his better half does for hosiery, boots and bonnets.

 When both partice persist in arguing over a subject upon which they never have and never can think alike.

 When "father" takes half the pie and leaves the other half to the one that made it and her eight children.

A single scratch may cause a festering scre. Victoria Carbolic Salve rapidly

heals cuts, wounds, bruises, burns and

The great black Hamburg grape vine at Hampton Court had 1,000 bunches re-

moved from it when the vine was flower-

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man in twelve days.

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Whereas much disease is "caused by wrong action of the stomach, liver, kid-neys, bowels and blood, and whereas neys, howels and blood, and whereas Burdock Blood Bitters is guaranteed to cure or relieve dyspepsia, kidney com-plaint, liver complaint, dropsy, rheu-matism, sick headache, etc. Therefore, Be it Resolved that all sufferers should be whether and singing off the same hymn book, but he thought "sparking" ought to be strictly a week-day affair, even although never done just a very little courting on the Sabbath in days not so long past. Be it Resolved that an address shows the health, 2 when the reverend gentleman asked for show of hands from those who had never,

"Come in here wid yez this minnit be-fore yez spile yer Fauntilery clothes," shouted the fond mother to her freckled faced boy: "Yis, dearest." "Ave 'yez been havin' a good toime widout yer mother?" "Yis, dearest." "And phwat av yez been doin'?" "Shtonin' Miss Mc-Guiles' priz dearest and callin' arts to never "sparked" on Sunday, there was only one hand went up, and that was the hand of a 3-year-old in his mother's arms. With a sigh of relief Mr Bell took his seat.

ne on Your Guard.

SUNDAY "SPARKING".-The following

is from the report of a recent Sunday School convention, and shows how "A touch of nature makes the whole world

Guiley's pig, dearest, and callin' rats to the po-leece. But I wor always t'iukin' ov yez, and lovin' yez with all me heart."—Washington Capital. Don't allow a cold in the head to slow ly and surely run into Catarrh, when you can be cured for 25c. by using Dr. Chase's Catarrh Cure. A few ap tions cure incipient catarrh ; 1 to 2 boxes cures ordinary catarrh ; 2 to 5 boxes is guaranteed to cure chronic catarrh. Try it. Only 25c and sure cure. Sold by

That is to say, your lungs. Also all your breathing machinery. Very won-deful machinery it is. Not only the all druggists ly

larger air-passages, but the thousands of little tubes and cavities leading from PASSED HIS EXAM. - We are pleased to notice that Mr J. C. Stevenson, of Clinton, passed a professional examina-tion at Trinity Medical College, Toronto, last week, and obtained diplomain the fol-When these are elogged and chocked with matter which ought not to be there your lungs cannot half do there work. And what they do, they cannot do

And what they do, they cannot do well. Call it cold, cough, croup, pneumonis, catarrh, consumption or any of the family of throat and nose and head and lung obstructions, all are bad. All ought to be got rid of. There is just one sure way to get rid of them. that is take Roschee's German Syrup, which any druggist will sell you at 75 cents a bottle. Even if everythng else has failed you, you may depend upon this for certain. eowly

Give Them A Chance.

Barefooted Children. Children who are allowed to go bare-

Consumption Surely Cured. To THE EDITOR :--Please inform your readers that I have a positive remedy for the above named disease. By its timely use thousands of hopeless cases have been permanently cured. I shall be glad to send two bottles of my remedy free to any of your readers who have con-sumption, if they will send me their Ex-press and P. O. address. Respectfully, Dz. T. A. SLOCUM. Y 37 Yonge St., Toronto, Ont. Children who are allowed to go bare-footod enjoy almost perfect immunity from the danger of "cold" by accidental chilling of the feet, and they are alto-gether healthier and happier than those who, in obedience to the usages of social life, have their lower extremities per-manently invalided, and, so to say, care-fully swathed and put away in rigid cases. As regards the poorer classes of children, there can be no sort of doubt in the mind of any one that it is incom-parably better they should go barefooted than wear boots that let in the wet, and stockings that are neary always damp

The father of W. A. Calbick, Brussels, who is 83 years of age, fell a short time ago and broke several of his ribs. stockings that are nearly always damp

0.

A REWARD-Of one dozen "TEABER RY" to any one sending the best four lin-thyme on "TEABERET," the remarkable little gem for the Testh and Bath. Ask y-u druggest or address,

day of last week, and a barrel containin about 45 gallons fell to the ground bursting both ends out of the barrel and TOWN PROERTIES FOR SALE spilling the contents on the street.

Don't Speculate. Run no risk in buying medicine, but try the great Kidney and Liver regula-tor, made by Dr Chase, author of Chase's receipes. Try Chase's Liver Cure for all diseases of the Liver, Kidneys, Stomach and Bowels. Sold by James Wilson, druggist.

A COOK BOOK

FREE By mail to any lady sending us her post office address. Wells, Richardson & Co., Montreal. Н

NOT CE TO BUILDERS & FARMERS

The Falls Reserve Lime Kiln is now running full time, and any quantity of Fresh Lime can be obtained at the Kiln at all times for 10c. a bushel.

M. & C. BÆCHLER, Goderich, May30, 1889. 2206tf

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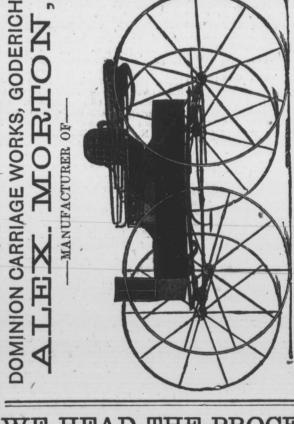
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