

THE WHEEL IN SPRING.

What to Do with a Bicycle That Has Winter Months.

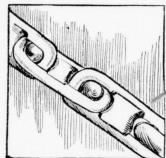
A machine that has been neglected all winter should be taken entirely apart, if the rider knows how to do it, and every part closely examined, especial attention being paid to the joints and points of bearing. Kerosene is a good thing for cleaning, as it cuts rust quickly, but great care must be taken not to let any of it get on either the enamel or the tires. In cleaning cups and bearings a great deal of care must be taken. When removing the bearings a cloth should be spread under the wheel so that these little stee. balls do not become lost. It is advisable to keep the sets separate, even though may be of the same size. Bearings have a tendency after being in use awhile to wear off their own imperfections and adjust themselve to each other and the path they wear in the cups. Sometimes it makes quite a difference if one set is put in the place of another. Vaseline is used by many as a lubricant for bearings. In the case of tires the only thing to do is to inflate them fully. They may have become defective if they have been left deflated and standing on a floor. best to have an expert look after these Dust may have clogged the plunger of the valve or the cement holding the valve in the valve-stem may have dried and broken. A defect of this kind may give the rider the impression that the tire has become porous. Any trouble with the valve can be easily detected by taking a small wine glass, filling it with water and holding it close to the rim so that the entire valve is sub-merged. If there is an escape of air it will be readily seen by small air bubbles in the water. The tire, in all cases where a wheel has been left standing all winter, should be removed and freshly cemented to the rim. The old cement cracks and will not hold. Unless attention is given to this the tire will "creep" the first time the machine is used and the valve-stem will be cut off.

The head or steering gear of the machine is another part that should be carefully examined. The head has a great deal to do with the easy run ning of a machine, so there must b a perfect adjustment. It is a part that is always moving in the act of balancing the wheel, and therefore has a arge at deal of wear. In addition to this there is an unequal strain. The bearing cups have to support nearly all the weight of the rider and all strains occasioned by the unevenness of the The bearings in the head do not have the full rotary movement as in other parts of the machine. There is only a backward and forward move ment, often very slight, but enough to wear considerably. In the adjustment of the head care should be taken that Any looseness can be detected by taking hold of the handlebar and lifting it up and pressing it down alternately. If there is any looseness it must either proceed from the head or front wheel A good plan after lubricating the bear several times so that the bearings find their proper adjustment. Heads should work freely, but should always be rigid.-N. Y. Times

FRICTIONLESS CHAIN.

Ball Bearing Put to a New and Seem burgh Inventor.

Ball bearings, which first became generally familiar through their use in bicycle bearings, have now become part of innumerable mechanical con-Wherever it is desired to reduce friction to a minimum, or to obtain a particularly easily movable ball bearing is introduced, so that they are found in everything,



FRICTIONLESS CHAIN

from a car axle to a chair castor. In ventors have racked their brains in an endeavor to find new adaptations of recently evolved, a ball-bearing chain, designed by a Pittsburgh patentee Robert A. Carter, is illustrated here As shown, the links are provided at on end with a concave, or hollow, rounded seat, in which the steel ball is placed The interlocking link engages with and bears upon this ball, this position being maintained by the shoulders of abutments, as indicated. By such means a particularly flexible chain is obtained, and one which can be used for a great variety of purposes, where it is desired to keep the chain in mo-tion, and where the energy to do this is a factor to be considered .- Cincinnati Commercial Tribune.

Exit the Mike Mule. Compressed air motors are sup planting mules in Michigan mines.

SAILS FOR BICYCLES.

Attachment to the Rear Wheel to crease Speed.

Sails to assist in the propulsion of bicycles have been suggested before, and isually the attempt has been made to place them on the front wheel, or front head, but in the arrangement here shown the sail is attached to the cear wheel in such a manner that its weight helps to balance and steady the wheel. The sail is mounted on a mast, with the usual boom, and its movement is controlled by means of the reel shown just back of the head, on the top brace. When the rider unwinds the sheet from the reel the sail is free to assume an inclined position relative to the vertical plane of the bicycle, and when the sheet is wound up on the reel the boom brings the sail into the plane



BICYCLE WITH SAIL ATTACHMENT.

of the bicycle in case it is traveling against the wind, as no use can be made of the sail at that time. According to the inventor, however, when the wind is blowing in the direction of the travel of the bicycle, or at one side thereof, then the operator unwinds the sheet so as to allow the sail to assume a normal position to cause the force of the wind to assist in the forward motion of the wheel. The inventor is Rudolph Sorensen, of Ord, Neb., who seems to think that this form of wheeling will prove a distinctive and attractive feature of pleasure riding.—Louisville Courier-Journal.

TRUNK LINE SIDEPATH.

To Be Constructed Between New York and Chicago by the League of American Wheelmen.

The League of American Wheelmen livisions in charge of the construction of the "trunk line" side-path between New York and Chicago are working with all possible speed on the project While the work of organizing the proper committees is under way, the di vision officers are rapidly preparing the plans. These have so far pro-gressed that the probable route has

almost been definitely decided upon.
As now outlined the path (starting from the New York end) will run through Poughkeepsie, Albany, Schenectady, Amsterdam, Utica, Syracuse, Rochester, Batavia, Buffalo (N. Y.), Erie (Pa.), Ashtabula, Cleveland, Elyria, Toledo (O.), Butler, Goshen, Elkhart, South Bend (Ind.), to Chicago. This is practically the old transcontinental stage-coach mail route, and is the one generally followed by the Chicago-New York record-breakers.

The New York division is taking the lead in the undertaking, and expects to have practical results within a short time. Under the direction of Secretary Treasurer Bull maps have been prepared showing the paths already con-structed in New York state, and engineers are at work preparing plans for the intervening stretches of road. When these are completed the sidepath commissioners in the counties in-terested will build the connecting paths until there will be a complete stretch of them from New York city to the western boundaries of the state The New York division will have supervision of 530 miles of the path, or more than half, as the total length will be 968 miles.

The Ohio and Indiana sections will not proceed so rapidly, as they have not the advantage of paths already built, but so enthusiastically has the project been received in those states there is no doubt they will be close to New York in finishing their respective

That all possible speed may be given the construction of the big path, the L. A. W. urges all wheelmen, particularly those on the route, to become members of it immediately, that there may be funds available for the preparatory

Cycling as an Occupation. Cycling as a recreation is open to

everyone, but cycling as an absorbing occupation is only fit for the early days of youth before the battle of life has begun. How can a busy doctor or lawyer find time to train or race? How could the head of a firm allow his business to go to ruin while he was scouring the country after records? How can the student lay the foundations of knowledge when he comes home every evening with his brain filled with rec ords and distances, and perhaps the yells of a crowd that saw him finish yells of a crowd that saw him finish first in a race, or of the many strange sights that flashed past him in a century round? With his mind in this confusion, he is certainly incapable of steady work .- Golden Days

Poison in Tobacco Smoke.

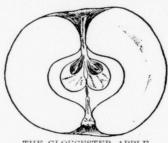
the proportions of nicotine do not satisfactorily explain the poisonous effeets of tobacco. H. Thoms assumes that the toxic substance is a new oil he has detected in tobacco smoke. oil produces viclent headache, trembling, giddiness, etc., and by treatment with a two per cent. potash solution yields a phenollike body with an odor



THE GLOUCESTER APPLE.

A Fancy Fruit for Winter Consump tion That Originated in Virginia Many Years Ago.

Among the fancy little winter ap ples, the Lady has long been almost alone in the market and on the tables of those who seek for a small dessert apple. It is indeed a beautiful and well-flavored little favorite, but it is not easy to secure good crops. cently there came from Cincinnati market an old but little known apple called Gloucester, that originated in West Virginia many years ago. It is not quite so small nor so flat in shape as the Lady, as the accompany-



THE GLOUCESTER APPLE. (Three-Fourths Natural Size.)

ing illustration will show, but it is small enough to meet the requirements of the fastidious table decorator, and besides is exceedingly handsome in appearance. The skin is almost as glossy as satin, and the creamy white ground color with a brilliant pinkish blush on one side shows off the apple to great advan-

The flavor is mild sub-acid the flesh is almost as white as chalk and very soft and tender, yet juicy and crisp enough to be pleasant to eat. Among the other good points is the fact that it may be kept for the Thanksgiving and midwinter holidays as far south as Kentucky. The tree is also said to be very productive and a regular bearer, which cannot be said of the Lady. Those who wish to plant a few apple trees for the strictly fancy de should endeavor to get the Gloucester .- Orange Judd Farmer.

NATIONAL AID NEEDED.

But Each State Should Also Contrib ute Toward Making the Good Roads Movement a Success

The agricultural department calls attention, in a recent circular, to the fact that 31 states have created labor bureaus or bureaus of industrial statistics, while but half a dozen have highway commissions with jurisdiction over road affairs.

The average state legislature is startlingly prolific in measures for regulat-ing almost every conceivable busness that is carried on within the state. It does not stop with regulating the activities of mankind, but occasionally takes a shy at the laws of nature, suspending them or repealing them according to their own pleasure. Singularly enough, the most important question that vitally concerns the industrial prosperity of the state—that of good roads and how to provide for their construction—is almost entirely ig-nored by the legislatures. Some of the states whose legislatures put in their time fixing passenger rates for the railroads provide nothing but mud roads on which the farmer must haul his products to the market.

The first steps in the inauguration of a good roads movement in each state should be to legalize a bureau of high-ways or the appointment of a nonpartisan highway commission, whose du-ties should be to establish a capable engineer in each county, to systematiz local laws and locate suitable material for road purposes. The system of "working out road taxes" should be abolished and the poll taxes should be collected in cash. This, combined with the principle of state aid, is the only practical solution of the good roads problem. In addition to this work on the part of the state congress should appropriate funds for the offices of public road inquiries or the establishment of a national highway bureau to cooperate with the states in educating public sentiment concerning the importance of good roads and how to construct them.—Chicago Times-Herald.

A FEW DAIRY POINTERS.

Use great care in turning to pasture Give a good feeding of hay in the morn ing and do not leave them out al Do not leave the herd out in the

showers. The rains are cold in Juna even, and loss will result if careless in this respect. Take the world over, there are more

good cows and sensible men than there are poor cows and fools. The trouble is to get the wise men and good cows together. When we do this fewer men will be complaining that "dairyin' don't Sour milk may not be relished quite

so much by calves at first, but it is a good thing to raise calves on if the cannot have it sweet invariably. change of food from sweet to sour oc-casionally is detrimental to growth, and often begins scours

It should cost you about seven cents a day to feed your cow—\$25 a year. If you practice good principles of farming, her manure should offset the cost of shelter and labor. Now, if you don't get enough to pay for the feed, don't keep her.—Farm Journal.

Catarrh Cannot Be Cured

with Local Applications, as they cannot reach the seat of the disease. Catarrh is a blood or constitutional disease, and in order to cure it you must take internal remedies. Hall's Catarrh Cure is taken internally, and acts directly on the blood and nuccus surfaces. Hall's Catarrh Cure is not a quack medicine. It was prescribed by one of the best physicians in this country for years, and is a regular prescription. It is composed of the best tonics known, combined with the best blood purifiers, acting directly on the mucous surfaces. The perfect combination of the two ingredients is what produces such wonderful results in curing Catarrh. Send for testimonials, free.

F. J. CHENEY & CO., Props., Toledo, O. Sold by all druggists, price 75c.
Hall's Family Pills are the best.

Genuine Optimism.

The Pessimist—That waiter is awfully slow vith those cheese sandwiches. The Optimist—Oh, never mind. The longer we wait the better grows the cheese.—Indi-narylis Press

Do Your Feet Ache and Burn? Shake into your shoes, Allen's Foot-Ease, a powder for the feet. It makes tight or New Shoes Feel Easy, Cures Corns, Itching, Swollen, Hot, Callous, Smarting, Sore and Sweating Feet. All Druggists and Shoe Stores sell it, 25c. Sample sent FREE. Address, Allen S. Olmsted, Le Roy, N. Y.

Art in Pennsylvania.

Our community has received a social and professional addition in the person of Mr. "Bill" Jones, who returns to his native town an accomplished artist. In Philadelphia he was regarded as one of the best men in the Hotel Blank's barber shop. He has now accepted a position in "Tom" Johnson's tonsorial parlors.—Mountville (Pa.) Clarion.

Binder Twine at Low Prices.

If you want a special inside price on binder twine, either Sisal, Standard or Manila, cut this notice out and mail it to Sears, Roebuck & Co. (Binder Twine Department), Chicago, stating about how much twine you will require and how soon you will want it, and they will save you money by quoting you a price that will either secure your order or compel the party who supplies you to sell to you at a lower price than he otherwise would.

The man who was attempting suicide was not sinking for the third time.
Of course, it was necessary hereupon that he recall everything in his past life in the

space of one instant.
This he failed to do.
"Again my cursed memory!" he hissed, and he waded ashore in much chagrin, which was in nowise lessened by the derisive laughter of the spectators.—Detroit Journal.

Give the Children a Drink

Give the Children a Drink called Grain-O. It is a delicious, appetizing, nourishing food drink to take the place of coffee. Sold by all grocers and liked by all who have used it, because when properly prepared it tastes like the finest coffee but is free from all its injurious properties. Grain-O aids digestion and strengthens the nerves. It is not a stimulant but a health builder, and children, as well as adults, can drink it with great benefit. Costs about \(\frac{1}{2}\) as much as coffee. 15 and 25c.

A Different Declaration.

"She is very proud of the fact that she has an ancestor who was one of the signers of the Declaration of Independence." "That's nothing to be proud of. There's a divorce in our family, too."—Philadelphia Bulletin

One Night to Denver

One Night to Denver
Via Chicago, Union Pacific & North-Western Line. "Colorado Special" leaves Chicago 10:00 every morning, arriving Denver 1:00
the next afternoon, Colorado Springs and
Manitou same evening. No change of cars.
All meals in Dining Cars. Another fast,
train at 10:30 P. M. Daily. New book "Colorado," illustrated, mailed on receipt of four
cents postage. Ticket Offices, Chicago &
North-Western R'y., 193 Clark St., and
Wells St. Station.

If you feel that you must occasionally yield to the temptation to tell a lie, tell one so big that no one will believe it.—Atchson Globe.

I am sure Piso's Cure for Consumption aved my life three years ago.—Mrs. Thos. Aobbins, Maple Street, Norwich, N. Y., Feb 17, 1900.

Misspent time is never repaid.-Chicago

To Cure a Cold in One Day Take Laxative Bromo Quinine Tablets. All druggists refund money if it fails to cure. 25c.

Histrionic Improbability.

was during the performance of "Quo s" at Eureka, and Vinicius was begging onius to forget his reproaches, saying,

tearfully:
"Ah, how can you ever forgive me?"
"Vinicius," replied Petronius, with great earnestness, "thou art my only sister's dead child."
Whereupon the audience, which was not dead, but only bored, burst into huge laughter.—Kansas City Journal.

Dropsy treated free by Dr. H. H. Green's ions, of Atlanta, Ga. The greatest dropsy pecialists in the world. Read their adver-isement in another column of this paper.

A sailor says the sea always washes in dirty weather.—Chicago Daily News. <u>ਫ਼</u>ਫ਼

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Nothing hobbles the muscles and unfits for work like

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MATISM Van Buren's Rheu-the only positive cure. Past ex-perience success for Isself, Depot S. California Ave., Chicago.

Henry LaMar of the Henry LaMar Comedy Co. wrote from Hiram. Me January 28, 1900. "Send me another

Palmer's Lotion

quick. I thank you for recommending it." He was troubled with

PIMPLES

or pustules on his face from which a dozen doctors had failed to relieve him. Use LOTION SOAP in connection with the Lotion.



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CHICAGO, ILLINOIS.



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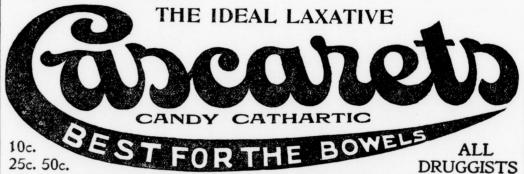
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RICH, BUT WRETCHED



Fight on for wealth, old "Money Bags," your liver is drying up and bowels wearing out, some day you will cry aloud for health, offering all your wealth, but you will not get it because you neglected Nature in your mad rush to get gold. No matter what you do, or what ails you, to-day is the day—every day is the day—to keep watch of Nature's wants—and help your bowels act regularly—CASCARETS will help Nature help you. Neglect means bile in the blood, foul breath, and awful pains in the back of the head with a loathing and bad feeling for all that is good in life. Don't care how rich or poor you are, you can't be well if you have bowel trouble, you will be regular if you take CASCA-RETS—get them to-day—CASCARETS in metal box; cost 10 cents; take one, eat it like candy and it will work gently while you sleep. It cures; that means it strength-

ens the muscular walls of the bowels and gives them new life; then they act regularly and naturally; that is what you wantit is guaranteed to be found in-



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