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banks of the winding St. Croix River two men of the woods. In the summer they guided for salmon and trout fishing parties. In the fall, they guided for hunting parties. And in the winter they trapped the fur-bearing antmals.

THE AWAKENING

By William J. McNulty.

The cabins of Dave Carney an Sandy Leonard were separated by two miles of densely wooded forest. for a radius of twenty miles, the for est extended. It was one of the most valuable stretches of timber and pulp wood lands that one could visualize. cabins and the starting of gardens. Although the St. Croix Lumber Comwhich owned the land, in en-

holdings. Came the day when forest conserva sures along the old St. Croix. But the ened the executive of the St. Croix paign that was organized, the two lands office of the company at Mill woodlands manager, impressed on both the need of exercising every precaution to prevent fires. Carney and Leonard agreed to work hand in hand and returned to their abodes in the

But no sooner was Carnew out of the St. Croix Lumber Company. He ranted and raved over the capitalistic tendency of the age, and concluded with a threat to do nothing at all that the company. And when remonstrated with by Leonard, all Carney would offer as an excuse for such talk was that the company was an oppress-

It was in vain that Leonard bad fighting and prevention machine organized by the company. Carney had become imbued with Communistic tendencies, had been devouring radical literature, and was an apostle of Communism. As a symbol of his hatred his rantings and ravings and his im-Lenin and Trot sky, he started wearing a red necktie and learned the words of the Internationale, the Communist "irrational anthem. "

ard consistently refused, and this from sure death. Do you know what the St. Croix Lumber Company. He ing some slash, above the cabin. just another means of keeping the say I'm cured, and that in future I'll be There was no need of fire protection. he doesn't even know which side his It was but camouflage to turn the em- bread is buttered on." ployees into slaves. And in addition to enslaving their employees, the company had availed itself of the opportunity to "use" the two squatters, at no expense to the company. He would see the company in Hades before he would act as a member of the fire police. In short he would do absolutely nothing to lessen the risk of fires. He would serve as no tool for the company, regardless of what Leonard chose to do.

in the end, although Leonard was at heart a man of peace-a man who typified the very spirit of peace and harmony as exemplified in the great outdoors, amid the gigantic ferests of the northeast, the friendship that had existed for twelve years between the two guides, turned cold. Not that Leonard felt ill will toward his erstwhile pal. He was really sorry for Carney, inasmuch as the latter, a rather decent fellow at heart, had allowed himself to be carried away by Com- al way of calculating indebtedness, munist literature.

Leonard accused Carney of being a tool of the company. Sandy merely part to take his view of the matter. laughed. This maddened Carney, who threatened his old friend with a beat- and the insurance company sent him ing. And this carried Sandy to laugh even harder. Angered beyond control. Carney casayed to fulfill his threat. And there amid the maples. poplars, spruce, cedars, firs, hemlocks, the two human residents of the St. Croix forest battled for physical supremacy.

Back and forth over the turf, the men struggled. First one would have the advantage. Then the other would seize the lead in the see-saw combat. It was the most vicious rough-and, cheque, tumble battle ever seen along the St. Croix. No rules were violated, for there were no rules to govern such knock-sm-down and drag-em-out clash- Try being cheerful when your es. Punching and kicking, gouging, troubles are heaviest and see how wrestling, elhowing, were all in use, much lighter they will become.

The cross buttock and the backheel. were frequently in evidence. Carney was reputed to be the champion roughand-tumble fighter of the river. Leonard was not anxious to use the questionable methods of the rough-andtumble conict, but had he contented himself with using fair fighting means he would have been incapacitated in a very few minutes after the start of the

After an hour of give and take, principally take, Carney weakened. Leonard saw an opening and whipping over a stiff right to the body sent Carney to the earth, for the latter"s quiet-The victor revived the vanquished, and each went to his cabin to reuperate, after the desperate battle.

It was soon after midnight, that Sandy Leonard intuitively smelled danger. Although sore from head to loot, he leaped from his bunk, and seered through the windows. To the east, was a red light just topping the

"It's a forest fire," he shouted. Roused from his semi-sleeping conlition by this startling news, he doned his clothes and ran from the cabin. Leonard hastened along the iver bank, to the spot the woodlands nanager had told him of choosing as the first telephone station in the link to be constructed by the company. The ire was fast growing in intensity. Right in the path of the flames was Carney's cabin. Apparently, the fire had not been started more than an hour. Seizing the telephone, Leonard explained the situation to the Milltown office. Then Leonard battered through the door of the Carney cabin and found Carney asleep. It was with difficulty that Sandy could induce Carney to arise. The flames had eaten part of the rear of the cabin before the two men left the little structure in a few minutes the building was a mass of smouldering ruins. They went to the telephone station, and ound the flames had burned the telephone and some of the connecting wire. Animals of all kinds were scurrying from the woods and racing into the river, too frightened to see the two men on the river bank.

In twenty minutes there arrived from Milltown, the nucleus of the fire epartment that was in process of formation among the employees of the St. Croix Lumber Company. The motor equipment of the company had been pressed into service. Fifteen men and each with a fire extinguisher. Carney took charge of the hose and hand pump and conscripted Leonard as his assistant just as Leonard was rushing for an axe to fell trees that stood in the path of the flames. Leonard was so astonished at the change of heart on the part of Carney, he made no protest when ordered by Carney to help with the pump and hose. Water from the river was soon pouring on the fire. The wind was not strong and that aided the fire fighters greatly. So, in two hours, just a ves-

tige of the fire remained. Dickson thanked the two woodsmen for saving the company's timber, for he said there was no doubt that with a longer start, the fire would have destroved the bulk of the forest.

After the party had left for Milltown, Carney turned to Leonard and

Not content with becoming a Com- "Say, Sandy, a fellow can be an munist himself, Carney insisted that awful fool, can't he? After what I did his friend join "the cause." But Leon- to you here you come and save me seemed to add to Carney's bitterness started that fire? Well, against the against capitalism as represented by orders of the company I started burncontended that the fire protection pro- thought it was out when I left it. But gram adopted by the company was that's what started that fire. You can employees of the firm in subjection by as strong for fire prevention in this making them ready at all times to re- forest as you are. Beats all how blind spond to the call of the company, a man can be at times. Some times



The Deadly Breath. breathe, somebody dies." chew cloves?"

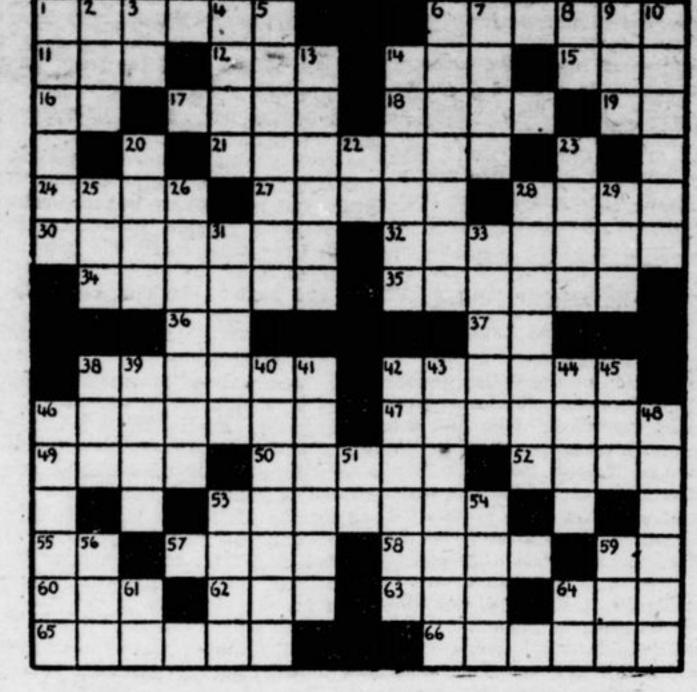
Rolling Up the Damages.

The man who wrote the following letter, quoted in Punch, had an origin which must have proved profitable if he could get the party of the second He had had a small fire at his house. a check for one pound ten shillings in settlement. Two days later they re-

ceived this communication: Sir: Please send another cheque for £3 in moneys as cheques are no use. the one that was to hand this morning being on mantlepiece and with draught of door opening was blew into fire and was burnt up before steps! 10s. for loss of property as agreed under threats and £1 10s, for loss of

Your obedient Servant. Lauchlan McSwither.

CROSS-WORD PUZZLE



SUGGESTIONS FOR SOLVING CROSS-WORD PUZZLES Start out by filling in the words of which you feel reasonably sure. These will give you a clue to other words crossing them, and they in turn to still others. A letter belongs in each white space, words starting at the numbered squares and running either horizontally or vertically or both,

HORIZONTAL 1-Pushed 6-Small containers for liquids 11-A unit of weight 12-A precious stone 14-Anger

15-A small child 16-A note in music 17-Barter 18-Blood 19-Personal pronoun 21-To disturb 24-Product of a tree

27-A singer 28-East Indian tree 30-Individual characteristics 32-Portions of bacon 34-Most unusual 35-A powerful nation

36-Farming activity (abbr.)

37-A letter 38-Decorative 42-Position in golf 46--Prophets 47-Inclines to one side 49-A parent (French) 50-A leather fastening

52-To be borne along 53-A ship 55-Inside 57-To escape 58-To beseech

59-An interjection

60-A dog 62-Part of the body 63-To place 64-To fondle

65-Dried stems of grain

1-Scattered 2-Garden Implement 3-A preposition 4-An exclamation

VERTICAL

5-Takes out 6-Order of proceedings 7-At hand 8-A preposition 9-Depressed 10-Cut of beef (pl.) 13-Slightest 14-To disregard

22-An article

23—To peep 25-Implement on a boat 26-Imprisonment 28-More sparse 29-Part of verb "to be"

20-Something insignificant

31-in kingly fashlon 33-A weapon 38-Metal in native state 39-Seldom seen 40-Those who test 41-Regard

42-Scalawags 43-With sloping ends 44-Line the roof of 45-Limit 46-Pertaining to the eyes (pl.) 48-A legislative body

51-Sun god 53-Cabbage salad 54-Comparative value 56-Product of a tree 59-Possessive pronoun 61-A common carrier (abbr.)

64-Printer's name for mixed type 66-To wish for

The First Photographs.

In the first attempts to make a photograph in the early part of the eighteenth century, the subject to be photographed sat between the source of light and a sheet of sensitized paper fastened on a board. His shadow blocked off a certain proportion of the light rays, and as a result his profile in silhouette was left on the paper. This image, however, faded in a few

Even fifty years ago, taking a single picture was often a day's work, and required such skill and expert knowledge and such elaborate, costly, and cumberstone equipment that the few who had mastered the art were glad to capitalize their knowledge by utilizing professionally.

human face is supposed to be a da- how. Select a bolt having threads ats. Even so it has had the distinc- good luck in harvesting Austrian hay. guerretype of Miss Dorothy Draper, about corresponding to the pitch de- tion of being the biggest diamond in At daybreak of June 4 fire opened fessor Draper, in 1840. The subject had to sit motionless in bright sunlight for about six minutes.

Rain at Para. The port of Para, near the mouth of the Amazon, has a rainy season, when Scakley-"Just think, every time I luged. A clerk hastily closes the from rats. doors, or the place would be flooded.

Solution of last week's puzzle.



Method of Winding Spring.

To wind a spring in a lathe is a sim- mous Jagersfontein mine. ple matter; to wind it without a lathe It originally weighed 971% carats, and, although I never thought of tak- to the frauds a cool swindler can per-The earliest sunlight picture of a is also a simple matter if one knows but was reduced by cutting to 239 car- ing his words seriously. I wished him sired in the spring. Hold the head of the world belonging to a private in- on the appointed targets by every buying stout shoes now wonder whothe bolt firmly in a vise, pinch one end dividual, the two Cullinans, which piece of artillery massed along the ther they may not be apprehended as of the wire tight and wind the other weigh 5161/2 and 309 carats respective- sector of my division. After the can-

Rat Campaign. Rat week in London was a bad week rain falls continuously, and a "dry for rats. More than three million were "Tell me," said the interviewer at our advancing lines, where enemy While the controversy concerning the season," when it rains every day. "I'll killed by professional rat catchers, or the bedside of the aviator who had shells were bursting on every hand; safety of the dome of famous St. see you to-morrow morning after the dinary householders and boys and fallen three thousand feet and hit the the figure appeared to be busy-mow. Paul's Cathedral was still raging, shower," is a common way of making girls. One vermin-exterminating com- earth, "what was your dominating ing grass! I rubbed my eyes in amaze- Londoners with a taste of antiquaran appointment. You step into a cool pany alone killed eight hundred thous- thought as you fell through all that ment. To make sure I asked the com- ianism were confounded by the recshop to escape the burning sun, says and. But London sanitary officers are space?" a traveler, and while you are making not yet satisfied; they want the cam- True to his record for coolness, the standing beside me, to take a look for Council committee that Waterloo a purchase the street cutside is de- paign to continue until the city is free aviator lit a cigarette, smiled and himself. He at once confirmed what Bridge, built just over 100 years ago

She (disgratedly) "Why don't you By the time you have paid your bill It is estimated that the whole aie, pressed me most was that I was about On the evening of the same day I. At present there is a temporary the sun is again shining brightly. But value of the commercial crop of all the only thing that wasn't going up." saw the stableman of the Rylsk regi- span being built to the east of Water-



This snap shows a winter scene on Lake Joseph, in Muskoka, where many people spend their vacations each year

were some of the chief items of wood waste emphasized.

ducts as follows:

Natural Resources Bulletin.

The Natural Resources Intelligence

At the recent meeting of the Can-

adian Society of Forest Engineers a

Canadian industry was discussed, that

of waste in lumber manufacture. Mr.

W. Kynoch, Superintendent of the

Dept. of the Interior, brought up the

subject, and made the statement that

manufacture of forest products is tre-

mendous. Waste in production of

lumber, in cutting or making various

wood goods, and waste through decay

Forests of British Columbia, the writ-

matter of supreme importance to

Service of the Dept. of the Interior.at

Ottawa says:

"The waste in the manufacture of lamps have an outside adjustment. lumber in this province is appalling methods. Huge slabs of absolutely the cross-bar or mark. clear wood, 3 to 6 inches thick, are sent to the fuel pile, and ends of boards and timbers which could well be used for some purpose are sent to the refuse burner. The burner is the most conspicuous thing about a British Columbia sawmill. The fire never goes Heavy saws are necessary to "break a gas which is poisonous to breathe." down" the large logs, but it is not unusual to see one-inch lumber being

Calling attention to wood waste in manufacture, where the consumption drop they're done. of wood is under control is of first importance. Losses by forest fires, by insect and fungus destruction, by wind-throwing,, and other causes are already heavy, and more or less beyond control, but when the lumbermen and millmen undertake to convert the those stirring, tragic or merely human tree into lumber it should be done

with the minimum of waste.

cut with a saw that takes out a %-

He-Surely you wouldn't marry a rich man who'd made his money dis-She-"Sure. If he were rich, could reform him."

A Fortune in a Match Box.

world has recently been brought to the queer fellow. London, and now reposes in the "Why, I am the company stableman, there was anything amiss.

the Excelsior-Jubilee, but known now fresh grass." as the Tata-Jubilee, after its owner, I could not help telling him that he bitterly: "With a good suit of clothes, Sir Dorabji Tata, came from the fa- was a moledets (fine, brave fellow) a good hat, a pair of spats and plenty

end around the bolt. The threads of ly, being the property of the crown. nonade our division went forward. Our the bolt will guide the wire so that an Valued at a million and a half dollars, success was decisive; the entire Ausequally spaced spring will be formed. It is easily contained in an ordinary trian fortified line was taken. match box.

What Impressed Him Most.

White Topaz.

Field Museum in Chicago. The head highest kind. of the department of geology, who led an expedition to South America. brought it from Brazil. Lapidaries estimate that it would make at least a hundred thousand stones of one carat each, but the museum naturally has no desire to put it on the market. ---

Home.

Heaps of faith in one another O'er the years what'er they bring, Memories and not one biter: Each for all in everything! ----

There is one debt that you can never pay in full-your debt to your mother. She does not ask it or expect it. All she asks, all she hopes, is just that you pay the interest on it. And you cannot pay even that in money, but only in patience and love! and gentleness-the one kind of currency that is legal tender in the place with me?" where mothers go.

The Automobile

HEADLIGHT ADJUSTMENT. Procedure for headlight adjustment

is as follows: Place car on level surface so that the headlamps are twenty-five feet! from the wall or screen. Examine bulbs and reflectors.

Forest Products Laboratories of the pair or replace if necessary. See that the lenses are installed so that they cannot turn in the lamp

the waste involved in the use and door. Examine focusing mechanism. See that it works freely but will not jar out of adjustment.

Measure the distance from the floor to the centres of the lamps. Subtract the loading allowance and set cross-In a report by R. D. Craig, on the bar or mark the wall at that height. Light the lamps. Cover one at a! er deals with the waste of forest pro- time, and focus the other. Always focus with the lenses in place if the

Aim the lamps so that the top of less long before his ship strikes the to one acustomed to more conservative the beam on the wall comes even with bad patch, and can estimate to a nice-

CARBON MONOXIDE. During the ensuing cold weather, been doing out in the open air. Remember, if you have your engine runout, and it furnishes a pillar of fire ning in the garage, that the exhaust by night and a cloud of smoke by day. contains the deadly carbon monoxide,

Play safe and either have your door over the portholes and firmly fixed. open when the engine is running or For, thick as is the glass of a porthole, make other provision for the rapid a really bad sea will smesh it like an inch to 1/2-inch kerf (cut). It is esti- escape of exhaust gases.

mated that at least 25 per cent. of the Carbon monoxide stupefies so quicktree is left in the woods, and another ly and completely that its victims sel- sure that all the water-tight compart-30 to 35 per cent, is wasted in the dom have time or consciousness to ment doors are working properly. The save themselves. They drop before arrangements for closing these are they can call for help and once they, most ingenious, and they are built to

Haying Under Fire.

Much has been printed about the war, but comparatively little about episodes that passed on the distant front where Russia and Austria came to grips. In the London Times there have recently appeared some interest. smoking-rooms an army of stewards ing articles by Gen. Likomsky, who is at work, lashing all furniture to pliwas Chief of Staff of the Russian Army lars and other supports, so that it during much of the war. From one of shall not break away with the motion them we take this amusing extract: of the ship. A big plant stand or a

on the southwestern Russian front in it is rushing from side to side with the spring of 1916 and ended in the every roll of the vessel. crushing defeat of the Austro-Hungar. In the galleys and pantries also, ian army. On June 3, the eye of our everything that can be secured is assault on the fortified positions of made fast. Even so, the breakages the enemy, I made a round of the are terrible. Not only glassware and front-line trenches. While going down crockery are smashed, but also chairs the line of the Rylsk regiment where and tables. One bad gale during a our wire entanglements were inter. crossing will mean a bill of anything woven with those of the enemy I stop. up to twelve of fourteen hundred ped a moment to study the enemy's pounds for breakages alone, quite irposition through a periscope. Next to respective of damages to the ship herme stood a private. From the expres- self. sion of his face it was plain that he was anxious to tell me something. So In London Spats Hide I encouraged him to speak by asking what he thought of the Austrian posi-

"I dare say pretty strong, Your Excellency," the soldier answered in the simple speech of the peasant. "But we are going to take it to-morrow just the same, and then I'll get lots of nice hay for our horse."

The third biggest diamond in the "What hay What horse?" I asked Your Excellency, and in front of the

Watching the attack of our division through my field glasses, I had my atmander of the artillery, who was ommendation of the London County I had seen: yes, there was a soldier by John Rennie, be completely demol-

having cut some nice grass for his to repair. As Waterloo Bridge is con-



WHEN THE STORM BREAKS

The weather in the Atlantic was so bad during November and December last that even huge forty thousand ton liners were thrown about like cockleshells, and one of the largest arrived in port with three passengers injured. Such accidents are no fault of the officers of the ship, who take every precaution to save passengers and crew alike from coming to any harm. One of the first things that every junior officer learns when appointed to a liner is what to do when a storm

In these days the captain does not have to depend entirely upon the barometer to warn him of the approach of a storm, for he gets news by wirety just what is going to happen.

Fixing the Dead-lights.

As soon as it is certain that there you will be doing work on your auto- officers are dispatched on a round of mobile indoors, which you have lately the ship. One sees that all the storm doors are closed, and also that all portholes are not only closed but properly

If indications point to a very heavy gale, the dead-lights are closed down

eggshell.

withstand enormous pressure. The next thing to be done is to provide for the personal safety of the passengers themselves, who, if the sea is running really big, are not allowed on deck at all. No exception is made to this rule, which prince and pauper alike must obey.

\$7000 for Breakages.

Meantime, down in the saloon and The "Brusiloff offensive" occurred heavy sofa is a positive danger when

Identity of Bandits

If you wear spats in London you're respectable. That at least is the conclusion drawn in a newspaper discussion on the recent burglary in the heart of London. Several persons saw two thieves back up a van to the door of a warehouse and carry off goods worth £1,200, but inasmuch as both burgiars were spats nobody thought

This precious stone, formerly called Austrian trenches there is such nice, organ, passionately attacks the public attitude in this respect, remarking for looking after his horse like that, of cheek there is scarcely any limit petrate."

London journalists who wear spats confidence men or burglars.

----London Decries the Razing of Waterloo Bridge

ment, happy and unharmed, elated at loo Bridge, which it has been planned A white topaz that weighs ninety horse. The soldier never suspected sidered the best architecturally of all pounds has been placed on view in the that he had shown bravery of the across the Thames, the Society for the Protection of Ancient Buildings is organizing a strong protest against the proposal to replace it by another.

Winter Puts Snow Cap on Volcano in Hawaii

Mauna Kea, one of the Pacific's highest mountain peaks, recently donned a coat of fresh snow as a result

of Hawaii's "winter weather." The great mountain, which caps the island of Hawaii, hid itself in the clouds for a few days while the rest of the island enjoyed tropical weather. When the clouds lifted, those who stood on the warm beaches saw the

Hundreds of tourists continue to visit the volcano, the largest party of recent date being that from the Red He -"Won't you travel through life | Star liner, Belgenland, which stopped at the island on its way around the world.