### The Automobile

TAKE CARE OF AUTO FENDERS, springs has become known. The dif-

An auto with shabby fenders looks like a man with worn-out shoes, dirty springs is very pronounced indeed. and unpressed clothing, or without a collar and tie. Auto fenders become culty is encountered. Dust will adhere ugly through neglect. They receive to the sides of oiled springs and finalscratches and bumps, get out of shape, ly work between the leaves themselves. and become full of holes because of ered, mud will be thrown on the rust. It is not unusual to see auto springs; it will dry, and then absorb fenders rusted through. all the oil on springs.

Rust usually begins its work underneath. Flying stone and gravel, caked mud and vibration all serve to remove tape. The springs are first thoroughthe paint or enamel. The oxidization ly washed and dried. Then the jack of the metal, or rust, sets in at once. The unobserving man does not know and the body is raised This allows about this destructive work until all the weight of the axles and wheels to of the metal is eaten away from the pull down on the springs and thus film of paint or enamel on top. separate the leaves so that grease can

Automobile fenders should be carefully washed occasionally and all spots from which the original paint or enamel has been removed, painted. If the wheels again. The leaves of the fender, hammer out the dents and paint the scratched places as soon as possible. The fender will look better may be wrapped with the tape. Wrap prevented. the tape will not stick well at the beginning or at the end, use shellac to

OILING THE SPRINGS.

hold the ends in place. Coat the en-It is only recently that the necessity tire wrapping with shellac after the for oiling automobile and truck job is finished.

mon Clay.

### of Longevity.

Brickmaking was one of man's earli- Your chances of a long life may rest est pursuits. Babylon was acquainted on your shoulder blades. Dr. William with the art; and it is recorded that W. Graves of the St. Louis University the Israelites baked bricks from clay school of medicine in an address bemixed with chopped straw. Nowadays, for ordinary building pur- Advancement of Science in Washingposes, red bricks are in greatest de- ton recently declared that long-lived mand. These are produced from many people most often have convex shaped

In the first place, the rough clay is lived most frequently have shoulder sent from the "pit" to the top of the blades of the straight or concave type. plant. Here it is ground to powder. Describing the proper use of the and passes through a fine sieve to the X-ray and other methods of classifyfloor below. The powdered clay is ing these bones, he pointed out that no

feetly formed, solid brick.

sence of iron compounds in the clay, in the type of their shoulder blades. which when burned transform to free Each of the three types of shoulder

ough drying is effected. After drying, Examination of large numbers of livthe hot air is withdrawn.

time firing is maintained day and with the age of the persons examined, night through feed-holes in the kiln Dr. Graves said. The inference he -Not all materials, however, can be lived people, those most likely to be-

treated in this simple fashion. Highly come sick, are most likely to have the In a lively book of reminiscences, Among the curious plants of Queensmany elaborate preparations are bone than the convex. necessary. Among these are "weathering," and the addition of non-plasttic matter to reduce shrinkage. Crush-

#### Taking Every Precaution.

On going into the playground one

fore you give way to temper. And I never knew a night so black light awful pain, for I had hurt my leg bad- one who approached him. here I find you sitting on Tommie's failed to follow in its track; I never ly. I was in the hospital for weeks.

him. "Im counting the hundred, sir," bleak despair that there was not a he said. "I really am, but I'm sitting rift somewhere; I never knew an hour siderably, and I heard them say that on his head, so that he'll be here when so drear love could not fill it full of there had been nothing like it before.

# Building Raised from Com- Shoulder Blades Hold Secret

ference in riding on oiled and on rusty .

In oiling springs, however, one difil-

Also, when muddy roads are encount-

To overcome this difficulty, wrap

the springs of the car with adhesive

is placed under the frame of the car

easily be inserted with a putty knife.

springs will come together and push

out surplus grease. This should be

carefully, allowing plenty of lap. If

After the springs are greased, the

fore the American Association far the shoulder blades, while the shorter-

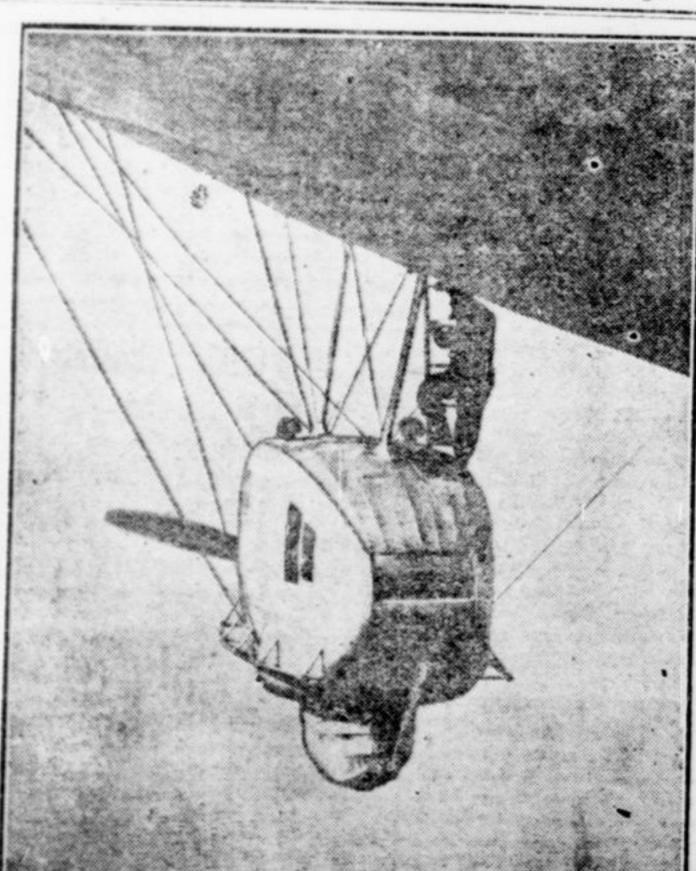
then fed into the brick-press, where it natural process or circumstances is watered to a workable plasticity, changes one type into another during emerging eventually pressed to a per the lifetime of an individual, and that in no feature do members of a family The color is now dark grey. Not more closely and more frequently reuntil after heating does the brick be. semble each other and at the same come red. Redness is due to the pre. time one or both parents than they do

blades is found in varying degrees and The bricks are placed in the kiln percentage in all human types regardchamber, which is then built up. Hot less of race stock, sex, age, occupaair is allowed to enter so that a thor. tion, social level and environment. ing persons and skeletons of known Fire is next introduced. Burning age, however, show that the proporusually takes a week. During that tion of convex shaped blades increases drew from this was that the shorter

### Sums at Lightning Speed.

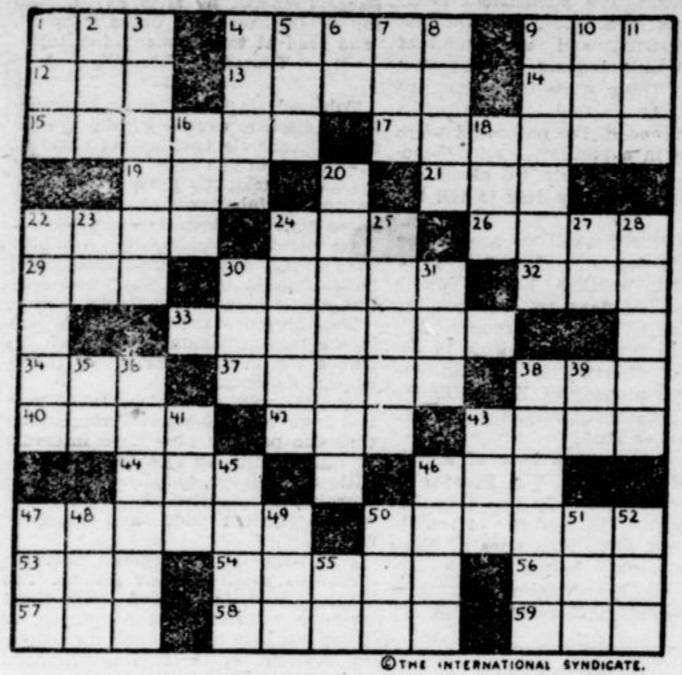
A French lightning calculator, M. often had a bit of conversation. ing grinding and pugging are also es Infaudi, was recently pitted against "When I was a young fellow," said Speaking of its effects, a naturalist

head. What have you to say?" knew a storm so gray it failed to have The child looked solemnly up at its clearing day; I never knew such some of the most famous surgeons in cheer!-John Kendrick Bangs.



W. 1. Richardson, who was in charge of the aeria! photography unit on Doctor-"Poor fellow! He got that shells all have different markings, the dirigible I os Angeles, climbs down from the great gas bag to one of the way trying to solve cross word puz- novel effects are produced. The prices

### 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-A dolt 4-To take oath 9--Article 12-In the past 13-Handle of an axe 14-An element 15-- A water-sprite 17-A feast day 19-To drink with the tongue 21-A division of land 22-To surfeit 24—A cleaning implement 26-Curved 29-Not elevated 30-Bravery 32-Fish eggs 33-Friendly 34-To plant 37-To twist violently 38-An animal

40-A fish 42---Still 43-The two 44-Tear 46-A place to sleep 47-A mark 50-Warmed 53-Rage 54-Soothed 58-Metal-bearing rock 67-Writing Implement 58-Lying flat 59-Novel VERTICAL

2-Number of years

A Leg For Sale.

1-A tree

#### 4-Large boat 5-Tiny 6-A letter 7-Hall 8-Genuine 9-Loose hanging rag 10-Hasten

3-To pursue

11-To make a mistake 16-Compensation 18-Convulsive cry 20-A defender 22-Group of pupils

23-An exclamation 24-To join 25-The end 27-Negative 28-Used for chewing 30-A pledge 31-A bit of cloth 35-An exclamation 36-Home of an animal 38-Agricultural product

39-Close by 41-To excavate 43-A serpent 45-To look slyly 46-To grant 47-A gratuity 48-Existing

50-A fowl 51-Beforehand 62-Precipitation 65-In this manner

#### Plant That Maddens.

49-Material for calking

plastic clays require molding, and straight or concave type of shoulder Thirty Years at Bow Street, Mr. Wil- land is the "stinging tree," a luxurious liam T. Ewens tells an amusing story shrub, pleasing to the eye, but danthat he heard from an old man who gerous to the touch. It grows from lived in Bow Street in the rear of the two or three inches to ten or fifteen police courts, with whom the author feet in height, and emits a disagree-

twelve of the latest type of calculating the old man, "I started to walk from says: "One often forgets the danger A brick's quality should be such that it will not succumb to the vagaries of the human machine car- Covent Garden to the Angel at Isling- of the tree until warned by its smell. it will not succumb to the vagaries of ried off all but one of the honors.

Covent Garden to the Angel at Ishing of the free ried off all but one of the honors.

The free were fields in those days Its effects are curious. It leaves no our climate. The faces will be free from the slightest crack, and the edges of the honors.

M. Inlaudi easily beat his mechanism where you now see nothing except mark, but the pain is maddening, and little town of one hundred and forty to the instances little town of one hundred and forty to the mountains have sent little town of one hundred and forty to the instances little town of one hundred and forty to the mountains have sent little town of one hundred and forty to the mountains have sent little town of one hundred and forty to the instances little town of from the slightest crack, and the edges cal competitors in the speed with shops, and I enjoyed the walk im- for months afterwards the affected which he solved problems in addition, mensely. I could run and jump at that part is tender when touched in rainy subtraction, division and finding the time as well as anyone in London, weather or when it gets wet in washsquare or the cube, but in the first and so when I came to a stile I did not ing.

> "During that time I was visited by London. My case puzzled them con-

Among the people interested in my leg was an old doctor who had a good practice in the region of the Strand. On one of his visits he said, 'I shuld like to have your leg." " 'Oh, would you?' said I. 'I want t myself if you have no objection." " 'I understand that,' said the doctor, 'but I should like to have your leg

when you have done with it. There has been nothing like it before, and I don't think you will want it for very " 'Thank you for nothing,' said I. 'Im going to get better, and the very | She-I love to take a tramp over

day I leave this place Ill walk you to the frozen snow." Ludgate Hill for anything you like. "The old doctor did not take me on, but he pestered me to or three times a week to sign a paper authorizing One Hundred Years Old, him to have my injured leg on my death. He even offered to give me twenty pounds if I would sign. I pondered long over his proposal. You see I had nothing else to do, and, as it was evident that my leg would be no use I signed it. He gave me ten pounds left the hospital in comparatively good change. health, though I was slightly lame and always shall be.

A Warning.

padded cell has a most remarkable for size, and after blowing are treated vocabulary. Most of the words he by a chemical process and the insides uses are marked rare or obsolete in filled with a light-weighted composi-

He-"Meaning whom?"

### 86 Years in French Family

Eighty-six years of service in the same family is the record which Victoire Desrumeaux, a domestic, celeto me after my death, I finally con- birthday, says a Paris despatch. The sented to his terms. The doctor French papers are losing no opportunity to comment on this remarkable down, and I was to have the balance in due time. From that moment I ing their positions almost monthly began to mend and soon afterwards often merely for the sake of the

Birds' Eggs as Jewelry.

Necklaces of wild birds' eggs are Asylum Visitor-"The patient in the now being made. The eggs are paired vary from \$25 to \$5000 and more. of the journey.

# Avalanches in Switzerland

By John A. Cass.

wine," and they are sometimes so case quite unlike any that have yet \$524,611,087, of which mineral procalled in English; as when in one of been mentioned. his poems Lord Byron spoke of the Many years ago, what was known tions, iron and its products, nonmountains as place, "Where roar the as the Forcola Pass, the little town of ferrous metals, and non-metallic minthundering lauwine," though he prob- Le Rovine stood at the foot of the erals, were valued at \$267,719,854. ably meant no more than the snow towering mountain. It contained This was made up largely of coal and avalanches which are frequently seen about three hundred inhabitants, who oil, with their products, which were in summer by the traveler.

occur at any time- that the people compelled to pay for it the most ex- mineral trade. Imports of wood and guard against them by planting exten- orbitant prices. sive forests on the hillsides, and in Indeed, the catalogue of evil deeds year amounted to \$33,365,792, while some cases strong bulwarks of ma- of which the people of the town were exports were valued at \$220,087,616. sonry have been erected between the guilty was a long one, and it is said Of the latter newsprint paper was towns and the mountains.

Despite all precautions, however, it some terrible judgment would be sent factured woods, including logs, laths, is not unusual for lives to be lost and upon them unless they reformed. single houses to be destroyed, and Be that as it may, it is certain that timber, railroad ties, spoolwood and all possibility of excavation.

way which leads from Switzerland to grave. Italy, the traveler still has his attenyears ago, a village named Mille Morti spoken of.

into Switzerland by the great Maloja rose the Rossberg Mountain to a Pass one sees the site of a catastrophe height of more than five thousand even more appalling than that already feet mentioned; more appalling because This mountain consists of layers of

more extensive. usual frequency, and a number of fis- The summer of 1806 had been an ex-

attempt has ever been made at excahundred people were buried beneath also has placed on the roof of his paltrees, among whose branches the for the avalanche swept resistlessly sides.

Another example, not so destructive to life and property, but more feet in height broke upon and desstriking, from its having twice hap-troyed all the buildings on the op- Paris Laborer Finds \$2,500 little town of one hundred and forty down ruin upon the peaceful valleys ed one day in a small shop an old,

noon, in 1819, another avalanche of ice

Even Goldau itself has been rebuilt. But as he was about to lift the and snow from the same mountain A new church stands on nearly the stove into a wagon, with the help of

### The Swiss people call them "lou- Eastern Switzerland, we find another United States last year amounted to

The word has a broader meaning, farmers, besides carrying on quite a sponsible for \$66,909,553 of this total. however, and includes those enormous business in the way of entertaining The exports of these three classes of masses of earth and rock which not people who were obliged to pass that mineral products to the United States infrequently become loosened from way. They had, however, come to amounted to \$74,107,767, which is the cliffs and descend into the valleys, have a bad reputation, and were sup. made up practically of raw materials, carrying death and destruction far posed to be capable of almost any or on which but comparatively little crime. Travelers who were obliged to manufacturing has been done. In some parts of the country aval- spend the night here were provided The forests of Canada, however, anches of either sort are so likely to with only the meanest food, but were have made up for the deficiency of the

that they were frequently warned that valued at \$90,990,711, and unmanu-

there are cases on record where en- on June 13, 1486, an earthquake shook pulpwood amounted to \$112,836,017. tire villages have been buried beyond the mountains violently, and a fear. Pulpwood exports alone were 1,330,ful avalanche buried the town, with 200 cords, valued at \$13,536,058. On the Bernina Pass, a great high- all its inhabitants, in one common Canada's forests are more than

tion directed to the spot where, many of such disasters yet remains to be is telling, however, and, with the tre-

was buried by an evalanche of earth In the very centre of Switzerland, timber reserves are being depleted. and rock from the slope of a neighbor- not far from the famous city of Lu. More thought is being given to forest ing mountain. Very little is known cerne, is a tract of country bearing fire dangers, and it is necessary if we concerning the disaster, for it is one the general name of Goldau. It in are to save this valuable asset. of those sad cases where neither man, cluded several villages, whose situawoman nor child escaped to tell the tions were of extreme beauty, for in Palaces of Princes and Nobles front of them lay the charming little On the road from the Italian lakes Lake of Lowertz, and behind them

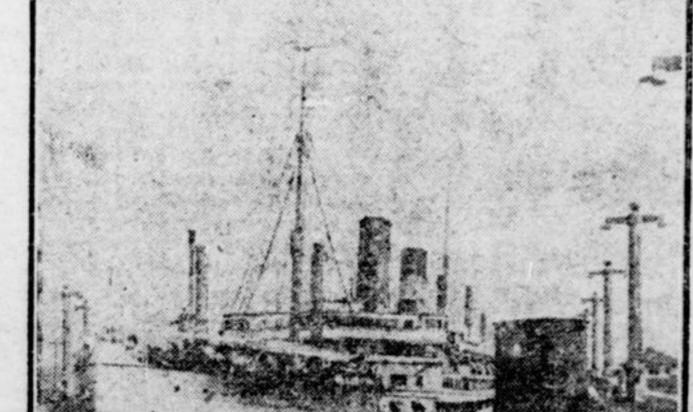
congiomerate rock, made up of round-The village of Plurs must have ed limestones mixed with flinty pebbeen very pleasant for situation, for bles imbedded in a sort of calacreous in front of it a mountain torrent kept tement, alternating with layers of up its unceasing roar, while at a lit sand three or four feet in thickness. tle distance in the background rose Not infrequently these sand-beds be the high cliffs of Monte Conto. It come disintegrated by the action of must have been a prosperous town, water percolating through them, and too, for early in the seventeenth centy-four hundred and thirty souls. In cipitated into the valley. It was this European states are largely respon-

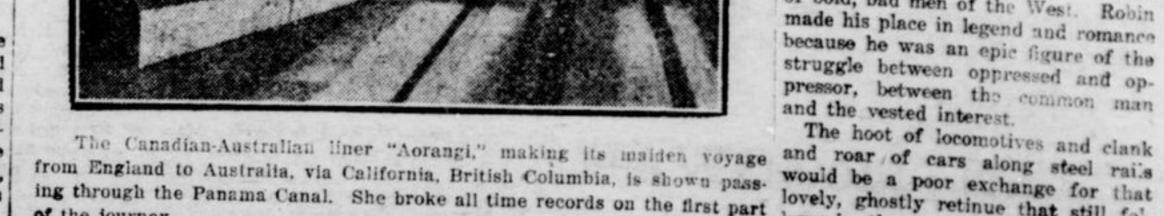
sures were seen to form and widen in ceptionally rainy one, and on the sectheir usual pursuits till one night a length, three thousand feet in width entirely operated by a native staff. their usual pursults the one hight a and one hundred feet in thickness, betheir possessions beneath a pile of came locsened, and fell upon the ployed English engineers to outline debris more than sixty feet deep.

doomed villages from a height of three his palace with electric lights and the

nimble squirrels play, and at the foot in till it reached the lake, one-fourth | Sides. | of the bed of which was filled up by are being rapidly introduced among the debris, while the islands were the natives,

came down upon them, burying one exact site of the one that was buried, the shopkeeper, something rolled from hundred and eighteen houses, to- and the only reminders of the catas- out the stove and with a metallic ring gether with many people. The house trophe of 1806 are a tablet, with an fell on the sidewalk. He hurriedly of the village pastor stood a little inscription, set in the wall of the pre- picked it up. It was an old, encrusted apart from the others, and so escaped sent building, a deligious service held gold coin. After a moment's hesitadestruction; but such an enormous once each year in commemoration of tion he dove into the stove, and to his quantity of snow was lodged in his the event, and the deep and inefface- delighted surprise found hidden away garden that it did not entirely disapable scars which show the track of the a bag filled with similar coins which,





#### Natural Resources Bulletin.

The Natural Resources Intelligence Service of the Dept. of the Interior at

Ottawa says:-Canada's total imports from the ducts, including the three classificawere occupied as cattle-herders and valued at \$183,739,970, coal being re-

> paper from the United States last planks and boards, shingles, square

carrying their share of her foreign But the most remarkable instance trade on the credit side. The strain mendous toll being taken by fires, our

# in India Wired for Electricity

Electricity has become so popular in India, particularly among the rulers and State officials, that contracting companies there are hiring scores of electrical workers in England and placing huge orders for goods with English manufacturers. Most of the palaces of Indian princes and nobles are entirely lighted by electricity and many villages, even in the remote parts of the country, have electric street lights and some of the stores

the autumn of 1618 it was noticed that on a large scale that caused the dis- sible for this wide introduction of electricity.

A plant has recently been establishthe mountain. But the people, disre- ond of September, a stratum of rock Himalayas, which supplies power to garding these admonitions, continued measuring more than two miles in some 250 towns in the vicinity and is

> thousand feet. Four villages were ut- hundreds of lights may now be seen terly destroyed, and upward of five at night for several miles. This ruler Nor did the destruction end there, he can illuminate the surrounding hill-

# Hidden in Old Stove

round—extracting the square root of trouble to climb over. In trying to "I have seen men who treated ormelted, the debris had been cleared quail readily in the face of difficultion."

Years passed, and the snow had all ple possess an energy which does not Pierre had the idea that he could buy On going into the playground one round—extracting the square root of trouble to climb over. In trying to "I have seen men who treated or jump it, however, I miscalculated the dinary pain lightly roll on the ground melted, the debris had been cleared quail readily in the face of difficulties. After the avalanche comes the page of his small pupils sitting on another. In the third round, which consisted of distance and came an awful cropper. In agony after being stung, and I have away, and another and larger village and or long the suitably prepared to withstand the dinary pain lightly roll on the ground mental, the desired and larger village and larger village and or long the suitably prepared to withstand the dinary pain lightly roll on the ground mental, the desired and larger village and who was lying prostrate on the complicated problems, the man won Who picked me up I Idon't know. Known a horse so completely mad after the availance comes the parties into a ground of the trees people lived in peace and safety, and scenes of such terrible disasters are to the rigors of a hard winter. He went When I regained consciousness I ter getting into a grove of the trees people lived in peace and safety, and scenes of such terrible disasters again into the shop, and for 10 francs, which When I regained consciousness I ter getting into a grove of the trees found myself in a hospital. I was in that he rushed open-mouthed at every. had perhaps quite forgotten the first become the abode of an industrious is something more than fifty cents.

> avalanche down the Rossberg's stony on analysis, were found to be ancient French pieces of gold amounting to the comfortable total of 50,000 francs, perhaps \$2,500.

Naturally there was quite a discussion as to ownership, both Pierre and the shopkeeper claiming title to the discovered treasure, but French law settled the argument in favor of the man who owned the stove by right of purchase. And so to-day Pierre is richer by 50,000 france because of that moment's inspiration which led him to buy an old, broken stove.

#### Romance.

Dwellers near Sherwood Forest, in Nottinghamshire, are aroused to militant protest by the scheme to put a railway through the glades and denes where Robin Hood and his merry men defied the law. Rural England, enshrining his fame in song and story, has bestowed on Robin an affection denied to circumspect and smug respectability by the same instinct that has led us in America to make heroes of bold, bad men of the West. Robin made his place in legend and romance because he was an epic figure of the struggle between oppressed and oppressor, between the common man and the vested interest.

The hoot of locomotives and clank lovely, ghostly retinue that still follows in the moonlight Robin Hood's immortal chivalry.

#### A Woodpecker Family's Troubles

A farmer of New York State used tell the following story to illustraboth the intelligence of birds and I sharp limitations.

Behind the horse barn on his far er's farm was a steep declivity t As the ground fell away sharply, th and his brother Amos took freque advantage.

Just over a crotch in one of the in a family of fedglings

her young, for nothing was to be an

Later in the day the two men we called from the farm and did not lowing morning they discovered the original opening was thus remove and they saw the female fly out a presently return with food for it

As they watched, John happened while he had been at work directly if peath it.

Here was a situation that plain called for assistance, though it coul not be rendered easily. After son ladder, lowered it part way down ill hill and ran it up till the top reste just below the crotch. Then wit Amos steadying the bottom Joh climbed till be could grasp the lim and look over. The accident evidently had happen

they were away, for the male wood pecker, which was caught beneat the limb by its tallfeathers and the ti of one wing, had struggled till it was almost exhausted. By cutting awa the bark round the crotch with his jackknife John Quickly freed it, an it fluttered clumsily to another tree The female made repeated angr mid her mate, though she could have set him at liberty by five minutes of er pert pecking. Yet she had faithfull covered by a glance into the hold were unharmed. Why had she no come to the male bird's assistance, at he had to here? Mr. Axton's theory to help the other but that the Instinct to protect their young explains the ar

### Siberia's Sun Flower.

derful flower that grows there, and which blooms only in January, what the winter is at its height. The blos som has something of the characterist tie of a "morning glory," learing or a single day.

The flower, when it opens, is staff shaped, its petals of the same lengt the leaves, and half an inch i width. On the third day the extreme ties of the anthers, which are five if number, show minute, glistoning specks, veritable vegetable diamonds about the size of a pin's head. These are the seed of the flower.

A Russian took a number of the seeds to St. Petersburg. They wer placed in a pot of snow and from earth. On the coldest day of the follower lowing January the miraculous flows burst through its icy covering and displayed its beauties to the wonder ing scientists. The plant has been very appropriately named "the snot flower."

#### Not Exactly.

The musical evening was in full swing. A lovely little girl had just finished singing "My little home if Devonshire."

The hostess was surprised to see man in a digtant corner of the draw ing-room visibly affected. Tears stool in his eyes, and he shook his head re miniscently.

"Poor Mr. Smith!" she said sympa theically. "I'm afraid that song recalled sad memories to you. Are you

a Devonshire man?" "No. I'm just a musician," was the

---An opera to be produced in Prague includes parts for foxes, beavers, and other animals, while there will be s ballet of spiders and butterfies.