

man would fain have gone, but it was not, as he himself said, in the line of duty for him to do so then. He longed to rest once more among his own people, but he could not, not then.

Mr. Waddell had taken possession of Haddon Castle in the name of Agnes Cunningham, widow of Colonel Arthur Lindsay, and of Belvedere Hall in the name of Margaret Cunningham. He did not know then what in a few days became the talk of the country side, that the late Sir Robert Cunningham was in reality not a Cunningham but a Hamilton, the lost son of Lady Hamilton; and that, therefore, his children had no right to Haddon Castle or any other of the Cunningham estates; but in the same breath came the tidings that Colonel Lindsay was alive and had been at Inchdrewer only a short time previous. This being the case, he had resolved to leave the possession as he had made it until he could communicate with Colonel Lindsay.

Previous to Mr. Waddell's becoming acquainted with the fact of Colonel Lindsay's having escaped the fate of the other passengers of the ill-starred "Sword," he asked Adam for the address of Mrs. Lindsay and her sister that he might write to them on the subject of their accession to the property of Haddon. Adam's reply was suggestive of the character of the man, cautious by nature, faithful unto death.

"No, Mr. Waddell, I cannot give you my mistress's address, but I'll go myself and bring a letter to her, and I'll be living and well, she'll get your letter at the longest two days after it would be to hand by the post. The steamer from Aberdeen runs winter and summer now. I'll go to London by it, and in twenty-four hours after I reach London, God willing, I'll deliver your letter."

"Does Mrs. Lindsay live in London?" "I'm not sure to say where she lives, or where she is going to. I might as well give you her address at once as tell you where she doesn't live. You would be the clever child folk say ye are if ye hadna the place she does live in ye were done of questioning me."

"But suppose, Adam, that the steamer was lost on the way to London and you lost with her, how could I find your mistress's address then? There may be such a thing as being too faithful."

Adam thought for a second or two. His mistress had changed her name, and had no doubt left Southampton and afterwards London in order to conceal their place of abode. He had no idea for what reason, but it was the desire of the ladies it should be so, that was enough for him; he certainly would never divulge the secret they wished to keep.

"On the other hand," he mentally said, "if anything were to happen to me, and Mr. Waddell knew nothing about their being at Eaton Sutton, or calling themselves by the name of their poor grandmother, the young Lady of Collingwood, they might lay out of their property for many a long year and day."

"No," thought he, "I will continue his mental review of what might be in case of his death happening so inopportunist, that would never do. We must not only wait the Lord's time, but we must be prepared for it. I see what I'll do." And then speaking to Mr. Waddell, he said:

"If ye donna hear frae the ladies themselves or me in the course of ten days, ye'll get their address in a sealed letter that I'll give to a trusty hand to bring to you in Aberdeen."

"Well, Adam, I suppose I must rest contented to wait your time. But when will you set off for London?"

Adam consulted his watch, a huge gold repeater given him as a joint gift by Mrs. Lindsay and her sister after his release from Flanders, and which, together with his sea's and gold chain, he always kept concealed from view in an outside pocket of his vest.

"It's already eleven o'clock, and the coach for Aberdeen will pass the Haddon Arms at once, so I'll take Frazer with me and set off in the dog-cart, and Frazer will bring it back again before two o'clock."

"I would go along with you, Adam; but I have all the tenantry to see, use all speed, and don't forget the sealed letter."

Adam wrote Mrs. Lindsay's address as follows: "Mrs. Lindsay, care Mrs. Farquharson, at Mrs. Churchill's lodgings, Eaton Sutton, England," and folding up the sheet on which it was written, sealed and addressed it to Mr. Waddell, giving it to John Longman, with strict injunctions, if he did not hear to the contrary before ten days, to go to Aberdeen and deliver the letter in person to the lady, instructing him that it was of importance it should not be delivered before then. Longman faithfully promised to do as he was requested, and in another hour Adam had bidden a hasty good-bye to Haddon Castle, in hopes to return and end his days where the most of them were spent.

[To be continued.]

WORKING.

Personal habits offer an immense field for the worker, and one out of which there is no way of escape; for if you give up one thing for the sake of peace and to be left alone, another will be attacked, and supposing you play the game of renunciation for an experiment, you will not find yourself better off at the end. After having let yourself be worried out of your bi-weekly whilst club, say the lament will then be that you do nothing where with to amuse yourself in the evening; or when you yourself, if you are the aggressor, have worried your daughter to give more time to painting than to music, and less time to books than to either, in a few years you will be heard making it a grievance that Amanda never sings or plays to you now, though you have spent quite a little fortune on her musical education, and what a thousand plucks it is she never reads a serious book, and knows nothing of English classical literature.

It must be confessed, if reluctantly, that between men and women, the latter are the greater adepts in the art of worrying, and that men are more often the victims than the aggressors. Tobacco and wine, whilst and billiards, hunting and shooting, are all favourite occupations for the exercise of the feminine worrying talent, when it exists; and we have known women who have made the *Times* newspaper and a harmless if not very elevated liking for novels sources of such incessant worry against their husbands, that, in our way of thinking, life was not worth living under the circumstances. It never enters into their calculations, bless them! that they have no more right to interfere with the pleasures or pursuits of others, for whose training they are not responsible, and when those pleasures or pursuits do neither them nor any weaker creature harm, than they

have to fall foul of a rose-tree for bearing thorns, nor tendrils, or to be angry because gooseberries are less luscious than grapes. Each human being has an absolute right to his own existence in all its bearings, provided he respects the boundaries and the bearings of others; and it is the meanest kind of tyranny to interfere in habits or enjoyments for the mere sake of worrying, and because we choose to set our faces against them. Take the question of smoking, which perhaps more than any other has caused dissension between men and women, the one indulging, the other objecting, and neither refraining for the sake of the other. Of course we know all that can be said on the subject. From the woman comes the complaints of a horrid odour which she detests; and of a disagreeable habit which makes him personally unpleasant to her, and sometimes of an unnecessary expense, where money is not low plentiful, and almost always that of unhealthiness, which, however, is an argument that does not run on four legs—we doubt if it has even three—individual experience being distinctly opposed to it, and even medical testimony divided. To these spear-points the man offers the broad defence of liking—the conviction that it does him good—of the universal instinct for some such gentle sedative traceable through all ages and all races—of the pain and damage it would be to him were he to forego his long-cherished indulgence; and, seeing that, as a mere balance of forces, his liking is so much greater than his dislike, and can possibly be, he thinks himself justified in retaining his pipe, notwithstanding her objections, and in the teeth of her worrying. So the controversy goes on from year to year, if the worried is as persistent as the worrier; but, as constant dropping will hollow the hardest stone, and as most men come home for peace, not war, nine times out of ten the poor beleaguered smoker gives way so far as to take his pipe in a meek and apologetic manner; and sometimes, a secret and underhand manner; and sometimes, but rarely, and we are glad that it is rarely, he drops the habit altogether, and the worrier stands triumphant on the fragments of the broken meerschaum. And then she looks round for something else to attack, and finds it.

Children are often the objects of an immense amount of worry. Resilience is one of the blessed qualities of youth, and without it indeed many a young creature would be worried into a mere nonentity, just a degree removed from imbecility. Imbued with the belief, quite wholesome and legitimate as a belief, that their primary duty is to bend the twig the way they wish the tree to bow, the mother of the worrier kind never have their fingers off that unhappy twig of theirs whose inclination is not quite to their liking. If they had a nervous child to manipulate, with a tendency to *gauche* and fidgety ways, instead of leaving the thing alone as a rule, with just a good-natured reminder now and again, made in a pleasant, heartsome manner, the worrier is always at the poor little victims, to the inevitable result of increasing what he or she is seeking to correct. The nervous little fellow becomes more self-conscious still, more timid, more fearful of doing wrong, more hopeless of doing right. Were his arms "like the sails of a windmill," as his disgusted mother says fretfully, last year? This year the sweep is whiter, and their whole action more angular and irregular. Did he jump about as if he was galvanised, or as if he had the beginning of St. Vitus's dance, when he was fourteen? At fifteen this galvanic battery is noticeably enlarged, and the "dances" has become a confirmed trick, never more to be broken through, all from the fatal habit of worrying, which his father, or his mother, or both, have adopted as the best means at their command of overcoming a disagreeable little accident, which, by wise neglect, would have died away as it had sprung up. Indeed, these odd tricks of manner are often produced by worrying, just as deceit, and ill-temper, and recklessness, and selfishness are produced by worrying, and the ruin of a fine nature, and the destruction of a noble individuality, and the gnawing away by slow degrees of all power, and courage, and manliness. One wonders how the poor young things bear it, for the worst part is of all human beings the most industrious. For the matter of that, one may well wonder how anyone bears it—shut up with it within the four walls of home. Like a perpetual headache, like a grumbling tooth, like a smoky chimney, like a thorn in the flesh, or any other thing that causes a perpetual current of discomfort, the worrying homestead is a blister to be borne with what courage and patience the grace of God and the good gift of nature may allow. But one does not choose to live with blisters, and one does not naturally care to be considered as a blister for one's own part; so that, although it may be good for one's soul to be a little worried at times (this is taking the ascetic view of life), still, on the whole, perhaps, one would get as much good by pleasant means; and, taken at the best, the experiment is not worth trying.—*Queen*.

SCIENTIFIC ITEMS.

How to FASTER RUBBER TO WOOD AND METAL.—A cement, which fastens alike wood to rubber and metal or wood, is prepared by a solution of shellac in ammonia. This is best made by soaking pulverized gum shells in ten times its weight of strong ammonia, when a slimy mass is obtained, which in three or four weeks will become liquid without the use of heat. This solution the rubber, and becomes, after volatilization, on the ammonia, hard and impermeable to gases and fluids.

PLATING WITH ZINC.—According to Batter, copper and brass may be given a firmly adherent coating of zinc. Finely divided zinc is placed in a non-metallic vessel covered with concentrated solution of sal-ammoniac. To be plated, the articles of copper or brass, previously cleaned, are then introduced. A few minutes suffice to produce a firm and brilliant coating. The powdered zinc is removed by first melting the zinc and then pouring the molten metal into a mortar and triturating it until it solidifies.

The height of the rays of the Aurora Borealis has been a subject of investigation during the present year at the observatory of Breslau, in Prussia. Particularly careful study was made of the aurora of February 4th, by Galle and Reimann, who made independent observations. The results indicate that the mean altitude of the auroral rays is fifty-five geographical miles above the surface of the earth, but it is probable that they are also developed at a height of forty miles, which is regarded as practically the limit of the atmosphere. Although the exact height of the rays was not determined, these observers believe them to have an average length of forty miles.

In response to an application by the Royal Society and the British Association for the Advancement of Science, the French Government has undertaken an expedition for the circumnavigation of the globe and the physical exploration of the deep sea in all the great oceanic areas. The ship "Challenger" has been designated for the purpose, and Captain. Nautilus will command her. Prof. Wyville Thompson has obtained three years' leave of absence from the University of Edinburgh, in order that he may act as scientific director of the expedition. He will be accompanied by a staff of qualified assistants. The date of departure will probably be some time in November.

An interesting discovery about the chief store in the well-known constellation Ursa Major, or the Great Bear, is announced as having been made by Dr. William Huggins, who read a most important paper on the motion of some stars toward or from the earth, at a recent meeting of the Royal Astronomical Society. It appears from this that five out of the seven in that constellation are receding from the earth at the rate of about thirty miles per second, while the remaining two are diverging from each other, one approaching the earth with a speed

of about fifty miles per second, and the other moving away, although more slowly than the five first mentioned.

M. Tognetier, the richest living authority in regard to pigeons, attributes the "homing" faculty, as it is termed, in certain species of these birds, not to instinct, but to observation. They have to be trained to homing, and they acquire it invariably by observation. In a fog or in the dark they cannot be made to fly. According to Dr. H. J. Lac, who writes about the sight of birds in the *Proceedings of the Royal Society*, the objects that no pigeon can possibly see two hundred miles ahead—which assumption would be necessary to convert M. Tognetier's theory—*is* in direct opposition to accumulated experience as the distinguished ballomist, Mr. Glaisher, can verify.

An apparatus for the destruction of insects and other like pests, called a vermin asphyxiator, was recently exhibited in London under circumstances which are described as particularly enjoyable. Mr. Frank Buckland, the naturalist, assembled a considerable number of friends to see the experiments, which were performed upon various creatures confined in a glass case, to which was attached a tube leading to the asphyxiator. Two snakes, which he employed as subjects, and which it took the most powerful vapor fifteen minutes to kill, are said to have "colled" loudly and hissed as he put them in. The *Full Mark Gazette* well says, "With the exception of the abridges, snakes, weevils and rats, every one expressed the greatest satisfaction with the properties of the asphyxiator."

FARM ITEMS.

POOR YIELD OF CROPS.—The average yield of crops, according to the census returns, is only about fourteen dollars per acre for all the land in cultivation in the United States. This is a poor showing and shows the necessity of more care in the cultivation of the soil.

HOW HIGH CROPS GROW.—A butcher doing a large business has stated that the stock he buys generally passes through four or five hands before it reaches him and after it leaves the farmer or feeder. This means that the stock is sold at a profit of five cents per pound, and the man who buys a steak pays twenty-five.

USE THE FOLLER.—A coarse, lumpy soil is not favorable to a successful wheat crop. It requires a foller to break up the soil, and this is the only way to some extent by rolling. In fact, this is the only way to get a good yield of wheat. A foller is a rolling machine that is used to break up the soil and to level the surface of the field. It is a very simple machine, and it is very effective. It is used by rolling the soil over with a heavy roller, and this breaks up the lumps and levels the surface. It is a very important machine for the farmer, and it is well worth the cost.

WELL-FLAVORED BUTTER.—How can it be expected that butter of good flavor can be produced from pastures full of weeds and grasses? From early spring, when the grass is green, up to fall, when the grass is dry and brown, the pasture should be kept free of weeds and grasses. The milk should be strained through a fine cloth, and the butter should be made in a clean, well-ventilated room. The butter should be salted with good salt, and it should be kept in a cool, dry place. It should be used as soon as possible, and it should not be kept for a long time. It should be used in a variety of ways, and it should be enjoyed by all who eat it.

WELL-PAID FOR RAISE CROPS.—A correspondent of the *Washington Post* writes: "As you are a practical farmer, I would like to ask if you think it will pay to raise crops where we give one-third for haying, and raise 30 bushels per acre, and then sell the grain at 10 cents per bushel. We do not sow how it can pay the farmer. It would pay the man who does the haying very well indeed. He can sell the grain at 10 cents per bushel, and he can sell the hay at 10 cents per ton. He can also sell the manure at 10 cents per ton. He can also sell the straw at 10 cents per ton. He can also sell the chaff at 10 cents per ton. He can also sell the stalks at 10 cents per ton. He can also sell the roots at 10 cents per ton. He can also sell the leaves at 10 cents per ton. He can also sell the seed at 10 cents per ton. He can also sell the grain at 10 cents per bushel. He can also sell the hay at 10 cents per ton. He can also sell the manure at 10 cents per ton. 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