

## Woman's Sight Is Restored By Radium

READING, Pa., June 24.—To be able to see her children again after sight of them had been denied her for five years of almost total blindness caused by hard work in a factory to support them is the happy lot of Mrs. Emma Epler, of Mohnton, five miles from this city. When she visited Dr. Ege she could barely distinguish the difference between day and night. Applications of radium were made for six to eight hours at a time.

At the end of three weeks she was able to distinguish houses at a distance, and a week later she was able to distinguish the faces of her children and tell one from another. After five weeks of treatment she was able to read half a dozen lines of test card set before her, and today she is able to read a newspaper without glasses.

Radium's success in the treatment of blindness was announced yesterday by Dr. Ege, who is treating several other patients and hopes to have as good results.

## FOILED THE MAJOR

He Had to Flee at the Last Battle of the Revolution.

A FIGHT WON WITH A BROOM.

The Engagement Was Short, Sharp and Decisive, and in It the Patriot Spitfire, Mistress Day, Earned the Right to Her Title and to Fame.

The last battle of the Revolution was not at Yorktown, nor was it any of the many small skirmishes that occurred after the surrender of Cornwallis and before the formal declaration of peace in 1783. The last battle was of the nature of a duel, and it happened on the day the British evacuated New York.

The great day that was to see the last of King George III's regiments leave these shores finally arrived. The British army was to board the ships that lay in the harbor. Washington and his troops were waiting at Kingsbridge and McGowan's pass to take possession of the city immediately on their departure.

Major William Cunningham, the British provost marshal and commander of the prison on the common, gave one last look about his office, tossed the key on the table and went out into the sunlight, slamming the door behind him with much unnecessary violence. His infamous reign was over. There were few forms of cruelty that he had hesitated to practice on the luckless Continental prisoners in his charge. Among the mildest were the contamination of their drinking water by throwing rubbish into the well and the appropriation and sale of their rations for his own profit.

The friends and relatives of his victims were flocking back to the city triumphant, and it behooved Major Cunningham not to linger. So he left the prison, turned into the common, and crossed it to gain Broadway. He strode along muttering curses under his breath. At the corner of Broadway and Murray street something caught his eye. He stopped, hesitated, then turned aside and hastened down Murray street.

"What audacity! What monstrous audacity!" he thought. But it was like that rebel spitfire, Mistress Day. He would teach her one final lesson.

He reached the Day house, which was a tavern near Greenwich street, opened the gate and shook his fist at the Stars and Stripes that fluttered from a tall flagpole, as if waving a triumphant welcome to the Continental troops.

Wrathfully he seized the halcyons and began to pull the flag down the pole. There was something about the action that soothed his ruffled feelings. He would at least take back to England with him one captured rebel banner. But he had reckoned without Mistress Day!

From her kitchen that patriotic woman heard the creaking of the pulley on her flagstaff. She lipped to her front windows and peeped out. She knew the major only too well, and she determined to prevent this final outrage. She flew back to the kitchen and seized her broom.

In the meantime, with his back to the house, the major was hauling away vigorously. A few more jerks and the flag would be within his grasp. Bang! His hat suddenly flew off and went

scuttling down the yard. In his astonishment he continued to pull mechanically on the halcyons. Bang, whack! The major saw many times more than thirteen stars, and the powder flew from his wig in all directions. He dropped the rope and turned about, purple with indignation.

"Woman, do you realize what you are doing?" he roared. The broomstick was in the air again, and the major dodged. Whack! It struck him squarely across the bridge of his nose, and the field at once became ensanguined.

The bleeding officer now began to take hasty counsel with himself. He was late for the embarkation, the American troops would soon be upon the ground, his hat had received an irreparable dent, his wig was in the wildest disorder, his regimentals were stained with marks of the bloody affray; his head was yet spinning from contact with Mistress Day's weapon, and there were unmistakable signs that Mistress Day's arm was by no means weary! Some warning bugle notes from the Battery decided the matter. He turned about and strode off, picking up his damaged headgear on the way. Mistress Day, smiling contentedly, returned to her kitchen to continue the baking and brewing for the evening festival.

It took the major some time to remove the evidences of conflict before he appeared at the Battery. He must have been hard put to it to explain his lateness and his disheveled state to his superior officer. His career after his return to England continued to be disreputable. He was executed for forgery eight years after he left New York. As for Mistress Day, the woman who flew the first American flag in the evacuated city and who fought and won the last conflict of the Revolution, she deserves a wider fame than she has enjoyed.—Youth's Companion.

## WEIGHT OF A BODY.

How It Decreases as It Goes Above or Below the Earth's Surface.

Everybody weighs more at the surface of the earth than it can at any other point. Its weight diminishes as it is removed above the surface or below it. As it rises from the surface its weight decreases in inverse ratio to the squares of the distances from the center of the earth. As it descends below the surface its weight decreases directly as the distance from the center of the earth.

Thus a body weighing 100 pounds at the surface of the earth, which is approximately 4,000 miles from the center, would weigh only twenty-five pounds at a point 4,000 miles high. At twice the distance it has one-quarter the weight.

If we drop the same body half the distance to the center of the earth or to a point approximately 2,000 miles below the surface it will weigh fifty pounds.

The reason for this is that at 2,000 miles from the center the body is on the surface of a sphere of 2,000 miles radius.

What causes weight is the mass of matter combined with distance from the center. A globe of 2,000 miles radius contains one-eighth as much matter as a globe of 4,000 miles radius, the size of the earth; therefore only one-eighth as much matter attracts the body, which, if mass were the only factor, would at 2,000 miles from the center weigh one-eighth as much as at the surface of the earth. But it is also only half as far from the center as it was at the surface and, if distance were the only factor, would weigh four times as much as on the surface. Four times one-eighth is one-half; therefore it weighs half what it would at the surface.

Now, suppose we drop this body to the very center of the earth and see what it would weigh. All the matter of the earth is now outside it and can exercise no attraction whatever upon it; therefore it weighs nothing at all.—New York World.

## AN ANIMAL IN PAIN.

It Suffers Less Than Man on Account of Its Low Intelligence.

It is a platitude that "pain is as one feels it." But that statement falls a considerable way short of the truth. The measure of pain undoubtedly depends as much upon realization, comparison and constructive memory as upon sensation. In other words, the individual with the most highly developed imagination enjoys and suffers most intensely, though not perhaps most violently. Pain and death are terrible in proportion as one is capable of relating them to experience. To children they are not terrible in this sense, because children have small experience and even smaller powers of imagining relations.

In the case of animals the power of constructing a memory picture and relating the same to present conditions is probably exceedingly low, if not entirely absent. Pain to an animal represents an unpleasant experience begun and ended sharply. It is unrelated. It has no social or moral significance. It is not terrible in the wide sense. An animal lives from moment

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to moment. At any given moment its happiness is a question in the main of physical comfort. The caged skylark (though it must not be supposed that this is any defense of an objectionable practice) experiences none of the misery of the caged man. It does not know that its liberty is hopelessly lost. It cannot relate its present position to past experience in the way in which a prisoner can and must do. The cage is merely an accidental obstruction which may at any moment disappear. Should the bird stop struggling it does so because struggling is unpleasant, not because it is hopeless.—London Chronicle.

### Highly Practical.

"Your business college for young ladies seems to be all right."

"It is all right."

"Do you give the girls a good practical business training?"

"In reply to that question I can only say that 60 per cent of our graduates marry their employers the first year."—Louisville Courier-Journal.

### Plains of Argentina.

The roads of the plains of Argentina have deeper dust in summer and deeper mud in winter than those of any other part of the world, consequently the wagons used on them have wheels that are from six to fifteen feet in diameter.

### Chilly Text.

Mother—Tommy, what was the golden text at Sunday school today? Tommy (who lives in Alaska)—Let me see. Oh, yes! "Many are cold, but few are frozen."—Judge.

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