

## Electricity at Home and Abroad

A GERMAN clock manufacturer has devised an alarm clock with an electric light bulb attached, so arranged that when the alarm rings, the light is switched on automatically, to shine on to the slumberer's face.

SEVERAL layers of heavy cloth are cut out at one operation by electrically-operated shears, which save time and labour. They are run by a motor, which delivers power through a series of gears to the cutting blades.

LEG weakness in young chickens, which is really a form of rickets, has been combated by feeding with cod-liver oil. It has, however, been found that yeast, after being exposed to ultra-violet rays, is cheaper, easier fed, and less likely to leave undesirable flavours in the flesh.

AN electric blanket, now on the market, is particularly adapted to the use of persons whose health requires much fresh air, or who are in the habit of sleeping out in all weathers. The blanket is full single-bed size, weighs no more than an ordinary quilt, and plugs in to any wall point or light socket.

THE value of irradiation by ultra-violet rays for destroying the germs that produce boils has already been pointed out in these columns, but a new treatment is now in force. A stream of electronic bullets, fired with electricity as low as thirty volts, is directed on to the affected part with definite germ-killing effect, and further encourages the creation of new, healthy tissue.

ELECTRICAL current, passed through the ground, is being successfully used by two French scientists, to explore the interior of the earth, as far as thirty-one miles below the surface. At such a depth, formation cannot be accurately ascertained, but the method is proving of great value to geologists in locating mineral deposits nearer the surface. A current of about two amperes is used and careful readings of voltage and current taken.

ELECTRICITY is now being used to revive apparently still-born infants, with great success. Where difficulty is experienced in inducing the child to breathe, electrodes are applied to both sides of either the neck or chest, and a weak current passed through the body. By the first application a nerve leading to the diaphragm is excited, and by the second the diaphragm muscle itself is acted upon, forcing expansion of the lungs, or, in other words, artificial breathing. A man, apparently dead of electric shock, has been revived by the same means.

## Answer to Correspondent

"MILK Chocolate Inquirer."—I hope you will recognise this reply. I have written to the sender of the recipe, and will let you know result.—Electra.

## KEEPING OUT THE COLD

### Hints on Preserving Beauty

COLD weather takes its toll on many good looks. Somehow many of us are uncomfortably conscious of not looking our best when the warm weather goes.

A London toilet specialist passes on some advice that, if followed, will help solve this age-old problem. She states that the people whose appearance is most likely to be affected by cold are those with very dry skins. Their circulation is not as good as it might be.

If you are one of them it is not wise to continue wearing gossamer-like undies and fragile silk stockings, and still hope to retain good looks, for they mean usually a red nose and a

more than ever before. Shoes should have sensible soles, or a warm inner sole, and above all must not fit tightly, or cold feet are the inevitable result. Attention to small details like these ward off the horror of chilblains. They are a health sign that should not be ignored. Walking, skipping and any exercise that stimulates the circulation will help to prevent them appearing, as also will rubbing the fingers, heels and toes with alcohol, eau-de-cologne, or methylated spirit before going out. If chilblains do develop, hands or feet must be bathed in hot water and a skin food massaged well in. For broken chilblains, a doctor should be consulted, and a medicated ointment obtained.

### New Use For Juice

MR. J. O. HICKMAN, of Hertfordshire, England, has been carrying out interesting experiments with the irradiation of milk, and finds it an eminently practical proposition applied for a few seconds before milking to the udders of the cows, bacteria in the milk is greatly reduced.

Subsequent irradiation still further reduces the bacteria content, enabling the milk to be kept fresh for a much longer period, and at the same time adding to it the valuable vitamin D, the anti-rickets vitamin, without destroying the equally valuable vitamin A.

The milk is run at a certain rate over an ordinary cooler whilst it is subjected to the rays from a mercury vapour lamp. Fifteen seconds' exposure has been found to yield the best results. The experiment has been carried on for nearly three years and is estimated to cost no more than a 3d. per gallon.

Litters of pigs, immediately after weaning, have been subjected to the rays of a Tungsten arc lamp, and have grown so rapidly that it was possible to market them four weeks earlier than pigs reared in the ordinary way.

At one period their weight increased by as much as from 2½lb. to 3lb. each day.

variegated complexion. On the other hand, no one will benefit by wrapping up in wads of woollies. A garment of soft wool, or one of silk and wool, worn next the skin will make all the difference to those whose circulation is slow. It is absolutely necessary for these people to see that hands, feet and legs are kept warm.

Gloves with warm linings, large cuffs to coats, and roomy pockets are helpful to ensure warm hands. Stockings of wool, or silk and wool, and even gaiters, which fit well and are in tune with the rest of the ensemble, look very smart and are being worn

## Forty—And Brain Still Growing

A SOCIETY for the Betterment of Human Stock reports a belief that man's brain continues to grow until the age of sixty. It states that it is doubtful if one part of the brain is able to reach its limits before that age. Parents will readily confirm from observation the statement that the maximum growth of imagination and originality occurs between four and seven years of age. The part covering memory and experience begins to grow at seven years and continues until nineteen. Thereafter a part called the silent area continues in human beings alone to expand until they are sixty years of age.

in it, for vanishing greaseless cream is not good for dry skins. Colourless lip salve should be used to prevent lips cracking.

Olive oil is invaluable for keeping the skin smooth in wintry weather. The hands can be soaked in it twice a week after washing them in hot water. To pour a few drops on the palm of the hand and massage oneself all over after the bath is a refreshing bedtime treatment. Work upward from your feet in the direction of the heart, and from the neck and shoulders downward toward it, and you will be surprised at the softness of the skin afterward. The very smallest amount of oil is needed.

Nothing can compare with a few exercises to start the day. Half the secret of winter fitness is to get warm by one's own efforts, instead of by artificial means.

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