

THE PARTS OF A COW

Cause Howard Fielding and His Better Half to Miss a Swell Wedding Down in Jersey.

HURDLE RACE BETWEEN TRAINS.

A South Jerseyman Who Knew It All Gets a Great Deal of Quiet Censure From the Travelers.

AN ADVENTURE ON A PICKET FENCE.

Conspicuous by Mail Was All That Reached the Mail-Marked Couple.

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"Hello," said he, "where are you going?"

"I told him our destination. 'Come aboard the other train, then,' said he, 'that'll pull out ahead of this one.' 'There, Howdy,' said Maude, 'didn't I tell you so?'"

"But the brakeman said it didn't stop at Yellowtown," I said, by way of self-defense. The South Jerseyman grinned.

"Of course he told you so," said he. "You don't suppose they want everybody to pile out of this train into the other one, do you? He was giving you guff. Oh, there's no hurry," he said, "for Maude had made another rush at the fence. 'I just saw the conductor of that train sitting on the cowcatcher eating doughnuts, and he said that he'd get anything he before supper time he would corner himself in luck.'"

A COW ON THE TRACK.

"I think he was simply awful," said Maude. "How can the conductor of a train sit down calmly and eat doughnuts when all these people are just dying of impatience?"

"Of course he don't imagine we're waiting for him, my dear," said I.

"No," said the South Jerseyman. "There's a freight train and cow in collision."

At East Sandbar. Nobody was hurt except the cow.

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A CHAMPAGNE PANIC.

Big Score Over the Ravages of the Phylloxera Vastatrix.

THE WORLD MAY GO THIRSTY.

Observers Stationed in Balloons Can See the Ocean Bottom.

DISEASE DUE TO USING TOMATOES.

MEASURING THE PRESSURE.

THE MAGNETIC FIELD.

THE CONDUIT SYSTEM.

THE DIAMOND MINING.

THE CROCKETED WOOD FOR MINING.

THE POISONOUS FUNGI.

THE NEW TORPEDO NET.

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A spiral spring we suspend a core of iron about platinum wire and lead pencil, in such a way that its lower end is just entering the upper end of a solenoid (a solenoid is simply a coil of insulated wire, having a hole through it, and the current in the wire allows a current to flow through the convolutions of the solenoid, the iron core will be drawn or "sucked" down, so to speak. And the stronger the current, so much the farther will the core be drawn down. If the current is turned off the core will be pulled back to its original position by the force of a spiral spring. If, then, at any future time, we lay a scale as before, by using known currents, so that at any future time we can determine the strength of an unknown current by the position of the pointer on the scale.

MEASURING THE PRESSURE. We have thus shown how the quantity of current can be determined. The pressure is, however, also determined by its effect. For example, if we take a straight piece of very fine copper wire, and connect it with the poles of a dynamo, the platinum wire will expand and contract, by the heat generated, according to the current flowing through it. If we connect the wire directly proportional to the pressure in volts at the dynamo.

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Accumulator Explosion. Quite a sensation has been caused in England by the recent explosion on board Earl Poulton's steam yacht. The vessel is lighted throughout with the electric light. Formerly the accumulators were stowed in the coal bunkers, but for convenience they have been removed to the deck, enclosed in lead, and covered with oak. The dynamo was worked by a small boiler in the engine room, which also heated the water for the general supply throughout the vessel. During a violent storm of rain Lord Poulton had occasioned the dynamo. As it was dark he struck a wax candle, and immediately a terrific explosion took place, the yacht being shaken from stem to stern. It was found that the whole of the accumulator on deck had exploded, blowing the oak cases to pieces, and sending the glass fragments and splinters into the air. The dynamo was running at the time, and only five minutes before the explosion had examined the cells and found them all right. Each cell had a vent hole on the top for escape of air and for ventilation.

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OWLS ON THE PERCH.

They Sit With the Middle Toes in Front and the Others Back.

THEIR THUMBS WORK BOTH WAYS.

A Young Bird That Swallowed So Many Mice the Tails Stuck Out.

WHY THEY SHOULD BE PROTECTED.

Much may be learned, says the London Saturday Review, from a visit to the "Owls cages" at the Zoo. For example, it hardly matters or common knowledge that the barn owl, the commonest and best known of our British species, has practically a world-wide range, the countries in which it is not found being very few.

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