

Rural Economy.

HORSE RACING.

The amusements of the turf have of late been spreading through our country at a fearful rate. We are sorry that our country...

The racing of horses is destitute of all the commendations of the athletic sports. It is utterly unnecessary. Besides this, it is utterly unwholesome, and the merest sham.

the oxygen in a pure state. Bread will always taste of the air that surrounds it while ripening; hence it should ripen where the air is pure.

A NEW TEXTILE.

The last discovery which comes to us from Nevada is agricultural rather than mineral, but very important. It is of a new textile, such as was eagerly sought when the rebellion broke out, but unsuccessfully.

Nevada lies between 37 deg. and 42 deg. north. This corresponds with the latitude of Northern California, of San Francisco, Salt Lake City, Indianapolis, Columbus and Philadelphia.

Scientific.

BESSEMER'S PROCESS.

It will be remembered that, some ten years since, the minds of inventors were running, as they still are, in the direction of improved guns.

The only way of determining the matter was by putting the idea to the test of experiment. Accordingly, early in 1856, Bessemer ordered a stock of Blaenavon iron, and set up a blast-engine and cupola at Baxter House, St. Pancras, where he used for conversion was a fixed cylindrical vessel three feet in diameter and four feet high, somewhat like an ordinary cupola furnace, lined with fire-bricks; and at some two inches from the bottom he inserted five twyer pipes, with orifices about three-eighths of an inch in diameter.

RIPE BREAD.

Bread made of wheat flour, when taken out of the oven, is unprepared for the stomach. It should go through a change, or ripen, before it is eaten.

and the fire-engines were sent for in hot haste. Before they arrived, however, the fury of decarbonization had expended itself, and the product was run off.

"Toward the end of 1856, I had the pleasure of seeing the process in operation at Baxter House, and I confess I never witnessed any metallurgical process more startling and impressive.

Among other visitors at Baxter House was the late George Rennie, the engineer, who, after witnessing the process, urged Bessemer to draw up an account of it for the meeting of the British Association at Cheltenham in the autumn of 1856.

On the morning of the day on which the paper was to be read, Bessemer was sitting at breakfast in his hotel, when an ironmaster (to whom he was unknown) said, laughing, to a friend within his hearing, "Do you know there is some one come down from London to read a paper on making steel from cast iron without fuel? Did you ever hear of such rubbish?"

In the same paper, the inventor called attention to an important feature of the new process in the following words: "At the stage of the process immediately following the boil, the whole of the crude iron has passed into the condition of cast steel of ordinary quality.

"Paper read before the British Association at Cheltenham, August, 1856. (To be concluded.)

ANTIDOTES FOR POISONS.

In the British and Foreign Medical-Chirurgical Review we find the following statements: Messrs. T. & T. C. Smith claim to have discovered a common antidote for prussic acid, antimony and arsenic.

Prussic Acid Antidote.—Take of liquor of perchloride of iron 57 minims (drops); protosulphate of iron in crystals, as pure as possible, 25 grains; as much water as will make a solution of a protoequivalent of iron, measuring about half an ounce.

Antidote for Arsenious Acid, White Arsenic.—Measure out 5 fluid drachms and 7 minims of liquor of perchloride of iron into 2 or 3 ounces of water, then add to the liquid a solution of 1 ounce (about two table-spoonfuls) of crystallized carbonate of soda in a few ounces of warm water, and stir till effervescence ceases. The resulting

mixture destroys about ten grains of arsenic. Antidote for Tartar Emetic.—Mix 5 fluid drachms or teaspoonfuls and seven drops of liquor of the perchloride of iron with a few ounces of water; then mix in a cream formed of 90 grains of calcined magnesia, rubbed up with water in a mortar; stir till, after gelatinizing, the mixture again gets thin; empty the mixture into a calico or muslin cloth, and press out the liquid; remove the mass from the cloth into a clean mortar, and rub it up with a little water into a smooth cream.

M. Bunsen, an eminent German chemist, and Dr. Berthollet, declare, as the results of their carefully-conducted experiments on the subject, that the hydrated peroxide of iron, formed in the process already given, by the addition of the perchloride of iron to carbonate of soda, is a better antidote for arsenious acid or white arsenic, both solid and dissolved, than albumen is to corrosive sublimate.

Albumen, the antidote for corrosive sublimate, is always at hand in the form of white of egg. The person who has taken a poisonous dose of this mineral salt should immediately swallow as much white of egg, well mixed with water, as the stomach will bear. There is no danger from excess, and even if fresh vomiting should be excited, so much the better.

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