

the fabric on the very last roller disengages itself, passes into the reservoir of tepid water, and then goes to the squeezing apparatus.

The mechanical movement of the folding machine draws the fabric on to the table, where it is properly arranged in folds, and from whence it is next taken to undergo the operations of scouring, rinsing, mordanting, and dyeing.

The same machine, arranged with perforated rollers and a pump for the circulation of liquid through the fabric, serves likewise for the ungumming of silks and the rinsing and scouring of cotton and woolen fabrics.—Revue Industrielle.

Hints to Swimmers.

When a swimmer gets chilled the blood ceases to circulate in the fingers, the finger nails become a deathly white color, the lips turn blue, and should he persist in staying in the water after these symptoms develop he is sure to have cramps. So long as the swimmer can discern spots on his finger nails he knows that his blood is in good order, and that he is safe and free from chills.

Albumen in Cows' Milk.

Dr. Schmidt, Mülheim, has been investigating the nitrogenous bodies in cows' milk, about which so much diversity of opinion has hitherto prevailed. He says that three albuminoid substances are regularly present in the milk, viz.: caseine, albumen, and pepton.

Sulphocyanide of Barium.

The adulteration of this substance is carried to such a degree that in some French specimens only 80 per cent of the pure salt, Ba(SCN)2.H2O, was found, the impurities consisting largely of barium chloride.

Dr. J. Tscherniac gives the following simple test. The sulphocyanide of barium is completely soluble in absolute alcohol, while all the barium salts that can be profitably employed for adulteration are insoluble in it, or very slightly so.

Remarkable Surgical Operation.

The Paris Academy of Medicine was yesterday informed by the operator that the young man on whom an operation was performed for the extraction of a spoon from his stomach has completely recovered from the effects of the hazardous operation, and is now enjoying his usual health.

The northernmost place in the world where rye and oats mature is at Kengis, in the Swedish province of Norrbotten, forty-nine miles to north of the Polar circle, whereas the northernmost spot where corn is grown is at Muoniovara, ninety-eight miles to north of the circle.

The Bell patent would, it is considered by those competent to form an opinion, be cheap at \$10,000,000. The consolidated telephone interests of the United States are estimated at from \$100,000,000 to \$150,000,000.

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THE PAST YEAR'S WORK IN THE PATENT OFFICE.

The report of the work of the Patent Office for the fiscal year ended June 30, 1882, just submitted by Commissioner Marble, shows that there were received 27,622 applications for patents for new inventions; 854 for design patents; 407 for reissue patents; 737 for registration of trade-marks, and 442 for labels, a total of 30,062.

The abridgment of United States patents was discontinued August 1 for lack of appropriations. The Commissioner asks that legislative action be taken to authorize the office to compel the attendance of witnesses to testify as to the use or sale of any invention before the two years' limit, when an application for a patent therefor is pending.

THE GARFIELD MONUMENT EXHIBITION.

Last summer Congress gave the Society of the Army of the Cumberland permission to use the rotunda and adjacent halls of the United States Capitol from November 25 to December 3, for a bazaar and reception, for the purpose of raising funds to aid in the erection of a monument in Washington to the memory of the late President Garfield.

The propriety of making a show house of the national capital may be questioned; but since it has been allowed, it is to be hoped that the exhibition will be as commendable as its object and worthy of its unparalleled housing.

The Board of Directors comprises representatives of the executive, legislative, and judicial branches of the Government, the army and navy, the Society of the Army of the Cumberland and the citizens of the District of Columbia, assisted by State boards of commissioners.

The exceptional conditions under which the National Bazaar, Industrial and Art Exposition is to be held would seem to make especially inviting the opportunity offered to manufacturers and others to exhibit their wares.

QUEER DOINGS IN OIL.

The summer of 1882 must pass into history as having witnessed the most memorable doings in the annals of the petroleum trade of Pennsylvania. In the SCIENTIFIC AMERICAN for July 22, 1882, reference was made to the results which followed the opening, in May, of the new oil deposits in Warren county, Pennsylvania.

Early in September, after the best wells had been "shot" by torpedoes repeatedly, they suddenly ceased producing in a way that caused a revulsion of feeling and intense excitement among all interested in producing petroleum.