Scientific American.

ESTABLISHED 1845.

MUNN & CO., Editors and Proprietors.

PUBLISHED WEEKLY AT

NO. 37 PARK ROW, NEW YORK.

O. D. MUNN.

A. E. BEACH.

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VOL. XXXVI., No. 17. [New Series.] Thirty-second Year.

NEW YORK, SATURDAY, APRIL 28, 1877.

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TEF Single copies of any desired number of the SUPPLEMENT sent to any address on receipt of 10 cents.

A BULL ON THE TRACK.

inventor quietly, "it would be bad for the cows."

If the questioner had framed his query to refer to bovines while the average cow is not run over, as a rule, except in- thing having departed from the present self, for a time. voluntarily, bulls have over and over again scorned to fly from locomotives, and, while being killed themselves, have loss of consciousness, of feeling, and of voluntary movewrecked the aggressive train. A remarkable instance of ment;" there is snoring as in deep sleep. Yet the sufferer this happened recently in Virginia, just as a heavy freight cannot be "brought back to himself" by ordinary means, train was approaching a bridge. A bull, with mane and tail and the savage witnesses such effects, and, recalling his crect, placed himself in the middle of the track, breathing dream experiences, believes that the second self has gone fierce defiance. The engineer put on the brakes and blew away for a time beyond recall. Some time afterwards there his whistle; but the brute lowered his head and refused to is a like prolonged insensibility, and then revival, and stir. It was impossible to stop, and the engine struck the another silence as to what has happened in the interval; on animal just as it was passing on the bridge, left the rails, the third time, the absent something does not return. and was precipitated on the trestle work, which gave way. The locomotive, tender, and six freight cars went down into few moments were in flames. The bridge, which was 120 a state in which the patient "presents the air of a statue feet long, was entirely consumed, the locomotive of course rather than that of an animated being," and control of the New subscriptions will be entered from the time the order is received; loss to the railroad company amounts to over \$8,000. What during the attack; and interpreting the facts according to became of the bull is not stated.

> and inanimate objects, says that, where intelligence rises beyond the merely automatic, the motion implying life begins mate them." to be distinguished from other motion by spontaneity. That the spontaneity of motion serves as a test, he considers. is clearly shown "by the behavior of tame animals, and even foundly impressed by the religious revivals. We refer to of wild animals, in presence of railway trains. In the early ecstasy, in which the subject shows that he is "not himdays of railways, they showed great alarm; but after a time, self," and seems to have vivid perceptions of things elsefamiliarized with the roar and swift motion of this some- where. During this state, in which the muscles are often thing, which, appearing in the distance, rushed by and dis- rigid, and there is a total suspension of voluntary motion, appeared in the distance, they became regardless of it." visions of an extraordinary nature occasionally occur. These This implies that the knowledge acquired by cattle in phenomena tend to strengthen the primitive belief that each the early days of the locomotive is hereditary, which is in man is double. All the various phases of coma, from a state accordance with Mr. Darwin's well known deductions from of slight drowsiness up to permanent and profound stupor, observation of other traits, transmitted from generation to are similarly interpretable. The similarity of behavior under such like peculiar condi-face to cleanse away the impurities of this minor death. tions, between man and the brutes, seems to add another link to that connection between human beings and the lower orders which the evolution theory aims to establish.

DUAL LIFE.

We have already discussed in some detail the curious mental condition of persons who apparently possess two distinct other nearly unemployed.

The Greenlanders have a queer belief that the shadow, cate, once thought of as like the original in all things, be- the United States Treasury. mental self become established.

swoon, catalepsy, etc., in which animation is suspended—as able capital, including \$130,000 in cash, amounts to but

When George Stephenson was before a committee who exertion, the Fijian believes, is due to the duplicate self were inquiring into the nature of his locomotive, one farmer wandering away from the body; and as the desertion is more committee man, after hearing that probably the unexampled determined than in the case of sleep, the return of the duplispeed of twelve miles an hour would be attained, and reali-cate is followed by silence as to what has been seen or done in zing that the machine could not leave its rails, sagely re- the interval. In our own common speech, we show the way marked: "But, Mr. Stephenson, supposing cows should get in which syncope yields seeming verification of the primitive on your track, before your engine?" "Well," replied the notion of duality. We speak of one who revives from a fainting fit as "coming back to himself;" we use the term "absent-minded" or "abstracted," literally meaning drawn of the masculine gender, subsequent experience has shown away. "Wits gone wool-gathering" is an apt vulgarism in that Stephenson's reply might well have been otherwise; for point. All of these terms clearly express the idea of some-

In apoplexy, the patient suddenly falling betrays a "total

Similar in the suddenness with which it commences, but otherwise dissimilar, is the state of insensibility called catathe abyss, the boiler exploded, and the bridge and cars in a lepsy. Instantaneous loss of consciousness is followed by was ruined, and the engineer was mortally injured. The members is lost. There is no recollection of occurrences their primary meanings, the wandering other self will give no Mr. Herbert Spencer, in discussing the subject of the dis-account of its adventures. The Chippewas, believing in the tinction which brutes are capable of making between animate journeying of souls, think that those of persons in a trance, "being refused a passage, return to their bodies and reani-

> There is still another state of insensibility which has shown itself repeatedly of late among persons who have been pro-

generation, in hunting dogs and other trained animals. But It will be seen, from Mr. Spencer's reasoning before given, in the case of brutes in which there exists great pugnacity, that the supposition peculiar to the savage is not without such as bulls, it would seem that the sentiment of anger is, some justification; and if the prevalence of a hypothesis is as in the case of man, strong enough to overpower the knowl- any support, this is certainly one most widely extended. The edge which is analogous to reason. There can be traced in Fijian may sometimes be heard to bawl out lustily to his man, besides, the same tendency to think, in moments of rage, own soul to return to him. Among the Karens, a man is that objects, which he knows to be inanimate, are animate. | constantly in fear lest his other self should leave him: sick-Made angry by resistance to his efforts, he may in a fit of ness or languor being regarded as signs of its absence. anger swear at some senseless thing, or dash it to the ground, Among the northern Asiatic tribes, disease is ascribed to the or kick it. "But," to quote Mr. Spencer again, "the ob-soul's departure. By the Algonquin Indians, a sick man is vious interpretation is that anger, like every other strong regarded as having his "shadow" "unsettled or detached emotion, tends to discharge itself in violent muscular ac- from his body." Like interpretations are met with among tions, which must take some direction or other;" and the the Australians and Tartars. A remarkable instance of the same author goes on to show that, as generally the object of survival of the primitive idea that the soul leaves the body wrath is a living object, to the injury of which the muscular during sleep is instanced among certain Jewish sects: where exertions are directed, so this same muscular discharge is, the prayer on awakening is one of thanks for the return of by force of association, turned upon an inanimate thing. the soul, and an immediate duty is the washing of hands and

THE CENTENNIAL SURPLUS.

Congress, prior to the opening of the Centennial, appropriated \$1,500,000 toward defraying the expenses of the same, and provided that, after the debts of the Exhibition had been paid, the United States should be reimbursed before any profits should be distributed among the stockholders. mental lives. To such individuals the events of the abnor- After the Exposition was over, the Centennial Board of mal life are a blank while existing in normal state, and vice Finance declined to refund the above sum to the National versa. Dr. Brown-Séquard has advanced the hypothesis that Treasury out of the funds on hand, on the ground that the this phenomenal condition is a consequence of our two brains, same could be reclaimed by the United States only after of which he believes we ordinarily use but one, leaving the the accruing of profits, and that, as no profits had accrued, the Exhibition not having paid expenses, the United States was barred from taking any part of the balance in the hands which by day accompanies us wherever we go, at night of the Board, and that said balance was the property of the wanders away and has adventures. This odd superstition stockholders and was divisible only among them. Issues regards the duality of life from another standpoint than the were framed, and the controversy put in action in the United almost purely physically one of Dr. Séquard; and Mr. Heromand Steel. By Andrew S. McGrath, Green and Soda for glass—Determination of Phosphorus and Arsenic by Molybeate of Ammonia.—Estimate of Urea by Hyphromatic—New Carbometer.—Ammonia.—Estimate of Urea by Hyphromatic—New Class for Clays from the Action of Salne Solutions on Leasis.—Macker Coloring Matters.—Analysis of Clays from China.—Laboratory manipulations.

V. MEDICINE, HYGIEM, HYGIEM, Hygiem and Soda for gradient of the Supreme Court, delivered by the Chief Jusmonia in the of our stockholders of our hyphromatic idea of our problems of the Supreme Court, delivered by the Chief Jusmonia in the court below, mainly on the ground attentive edo our stockholders. The Government then appealed, and Mr. Heromania in the court below, mainly on the ground attentive edo our stockholders. The Government then appealed, and Mr. Heromania in the court almost purely physically one of Dr. Séquard; and Mr. Her- States Circuit Court, which rendered decision in favor of the differs from the first simply in being absent and active at the stockholders can claim distribution among themselves." night while the other is at rest. Only as this supposed dupli- The million and a half of dollars will therefore be paid into

comes gradually modified by the dropping of physical charac- This decision will, it is said, materially affect the interests ters irreconcilable with the facts, does the hypothesis of a of the permanent Exhibition in Philadelphia, as the subscription to that enterprise consisted in large part in Cen-It is a notable fact that this belief in the duality of self is tennial stock worth some \$500,000 at par. It was expected constantly found among savages, and that they bring the that \$300,000 could be realized thereon; but now it seems same forward in explanation of the peculiar states known as that its value is but 30 cents on the dollar, so that the avail-