

men because they are black, to establish a government of complexion, not of opinion. Pass this bill, and the right of the people to choose their representatives, was lost beyond recovery.

At the conclusion of his speech, Turpie received the congratulations of his Democratic colleagues, and the Senate adjourned.

### ATMOSPHERIC CONDITIONS.

My predictions of pleasant weather after that November northwestern snowstorm and blizzard were fully verified, and with the exception of two sharp storms with accompanying cold waves and two or three lighter disturbances, I expect a very pleasant December, followed by a winter of very much less severity than the average.

I have been making calculations of next year's crop weather, and find that the rainfall will reach more elevated regions, and therefore countries like Texas, near the sea level, will have much less rain; while elevated countries, like the Dakotas, will have an increase of rainfall. This will be favorable to Western Kansas, Nebraska, Northwestern Texas, Southeastern Colorado, and a more equal distribution in the Atlantic States. It should be remembered that the high and low barometers of the storm move eastward near each other, the former gathering up the moisture from great bodies of water, and it is the depth of the tide in the atmosphere that causes the moisture to condense into rain near the sea level or enables it to float inland to higher elevations. As Jupiter—near the sun and earth at its perihelion—the atmosphere deepens and the rains move inland. As these tides reach their extremes of low and high, Western Kansas and Nebraska and similar lands midway between the high and low lands have their dry years.

### COMING STORM WAVES.

A storm wave was due to leave the Pacific Coast about the 28th, cross the Mississippi Valley from the 29th to Dec. 1st, and reach the Atlantic about the 2nd. But the notable storm of the immediate future will be that due to leave the Pacific Coast about the 4th of December, cross the great middle valley from 5th to 7th and reach the Atlantic coast about the 8th. This will be a very fierce storm and will be accompanied by a great variety of weather. As it moves eastward it will probably pass through the middle part of the United States, and north of it will occur snow storms and blizzards with heavy rains in the southern states. Very cold weather will occur in the extreme northwest.

A number of letters have reached me recently inquiring about my theory in reference to

### LIGHT, HEAT AND ELECTRICITY.

If there were any light outside of the atmospheres that surrounded the stars and planets we could not see them because space would be as bright as they are. It is only be-

cause they are surrounded by total darkness that we are able to see them. Light, heat and electricity are interchangeable. Paint an iron sail jet black. Let the sun shine on it and it will generate enough electricity to turn a light electric meter. Paint the iron sail white and it will not produce electricity. The black sail will heat; the white one will not. Place two cotton kerchiefs, one white the other black, on the snow, the black one will melt into the snow, the white one will not. The white reflects the sunlight, throws it off into space, the black will not, and consequently it changes into heat and electricity. This electricity may be changed back to light through the Edison electric lamp. So with sunlight. When it leaves the elements that surround the sun it meets with elements through which it cannot pass as light, changes to electricity, in which form it passes through space.

The northern light is caused by electricity, occurs when the planets are in position to cause greatest electric activity and is evidence that our earth is growing into the condition of a sun. Astronomers say that both Jupiter and Saturn, to some extent, shine of their own light. The electricity from the dark side of our earth causes our moon to give off a faint light when the moon is eclipsed in the shadow of our earth, otherwise we could not see it. Saturn has eight moons moving around it and they are to some extent planets belonging to Saturn as their sun, as our eight principal planets belong to our sun. My theory is that all these began existence by the bringing together of two or more atoms through the agency of that all-pervading force electricity, which is the motive power of the universe, the builder of everything, the principle of life that has puzzled us so much to understand. Light cannot exist away from condensed matter, as the gases, liquids and solids, and in accord with the principles illustrated in the above experiments sunlight immediately changes to electricity on leaving the elements that surround the sun and passes through dark space as electricity. Our atmosphere is a poor conductor of electricity and, as does the platinum wire, it heats when the electricity endeavors to pass through it and the electricity changes to light and heat. When the light reaches the earth it is again obstructed and changes to electricity and heat in the surface of the earth. After circulating through our earth, the electricity not condensed into matter passes off again into space. The condensing of electricity into a more solid form of matter is the starting point of motion and force. This condensation keeps up the motion of the ether of space.

W. T. FOSTER.

### A VERY GRAVE CHARGE SOON DISPOSED OF.

John and George Chugg, the U. P. conductors who were arrested a few days ago on the charge of em-

bezzlement, were arraigned before Justice Lacey Tuesday, Dec. 2nd, and acquitted, there being only the most flimsy evidence against them. The accused succeeded by abundant testimony in affirming their good character.

Both men have a large circle of friends and when they were arrested a profound sensation was created. On their discharge they were warmly congratulated by many acquaintances who from the first, looked upon them as the victims of prejudice and injustice.

The prosecuting attorney in the case was P. L. Williams and Mr. Eichnor, and Judge Powers defended the accused.

W. H. Volet, in the employ of the Pinkerton Detective Agency at Denver, said he came out here to investigate the alleged ticket stealing business on the Utah division of the Union Pacific. He made several trips with the defendant between Salt Lake and Ogden and on each occasion Chugg failed to cancel several tickets. On November 23, the witness rode from Ogden to Salt Lake on a ticket which he purchased in Ogden, and afterwards he repurchased that identical ticket from a broker in Ogden.

On cross-examination by Judge Powers, it came out that the witness' career had been a somewhat checkered and varied one.

O. B. Holmes, another Pinkerton detective, employed to work up the ticket stealing business, said he made nine trips with the defendant between this city and Ogden, and on every occasion he saw Chugg take up tickets and fail to cancel them. The conductor's method was to have a little piece of cardboard in his hand and he punched these instead of the tickets he took up, giving the impression that he was cancelling the tickets. He purchased a number of trip tickets from brokers here and at Ogden. After being handled by Judge Powers the witness left the stand rather flustered.

S. W. Eccles, of the Union Pacific, testified that it was the duty of a conductor to cancel each ticket immediately upon taking it up and return all as soon as possible.

Captain Lange testified that he made the search at the defendant's house and found three uncanceled tickets there. He afterwards arrested the defendant when he arrived from a trip, and brought him to the station where he was searched in the presence of a Mr. Adams, and a large number of tickets, some of which were uncanceled, was found.

Mr. Adams testified that the value of the uncanceled tickets found on the defendant at the time of his arrest was \$80.60.

On cross-examination by Judge Powers, however, it was elicited from Adams that one ticket valued at \$40 was, in reality, void on the night of the arrest, as was also one valued at \$37, so that the value of the uncanceled tickets.

Judge Powers argued that there was not a scintilla of evidence tending to convict the defendant with the sale of tickets to brokers, and