

SATELLITE AND STAR.
Jupiter's Fifth Moon Sets the Astronomers to Wrangling.
CARTRIGHT'S CLAIMS DISPUTED.
Surface Changes on Mars Fuzzle the Students of the Heavens.
LATE OBSERVATIONS IN SOUTH AMERICA

SAN JOSE, CAL., Oct. 3.—The following is a communication from Prof. Barnard concerning the discovery of Jupiter's fifth moon:

"My attention has been called to a telegraphic dispatch going the rounds of the press to the effect that Mr. Cartwright, of Detroit, has presented a claim for the fifth satellite of Jupiter, backed up with affidavits of a startling nature. I have already in an article published September 25, shown the folly of such claims, if for no other reason than the fact that the satellite can only be seen with the giant telescope of the world. None of these claimants have ever been heard of before in connection with any astronomical work, good or bad or indifferent."

"I only notice this claim of Mr. Cartwright's because the statement is made in the dispatch referred to that it is as detestable as it is contemptible and requires reply. The dispatch says: 'It would seem apparent that letters sent to observatories, at any rate, that one sent to Lick Observatory directly inspired the discovery of the fifth satellite by Prof. Barnard.' But as to the dispatch, I would say that up to the present moment any letter ever sent to Lick Observatory by Mr. Cartwright has never been seen or even heard of by me, and I know nothing, absolutely nothing, of the existence of any such letter. I have no doubt that every observatory of any consequence in the world has dozens of such letters in its files with claims about a mythical planet within a couple of degrees of Uranus, and with a satellite up near the north pole of the heavens pointed out by a spirit on the star Vega, and the discovery of double canals on Mars with the naked eye. These two letters actually exist."

"In connection with my statement of the difficulty of seeing this satellite with even a large telescope, I am sure Prof. Young is so well known that everybody will pardon my quoting from a letter just received from him in reference to the discovery. His instrument at Princeton is the third largest in America. It is a 23-inch Clark telescope and is as perfect an instrument as can be made. He writes: 'I tried my best to see the satellite but without success. I suppose that the telescopes at Washington, 28-inch, and Charlottesville, 23-inch, with mine here, 23-inch, are the only ones in this country which would have the least chance of being able to see the object. I take it for granted that in giving its magnitude as the 13th you mean that it is of the same apparent brightness as a 13th magnitude star at that distance from the planet's limb. If so it is a question whether I could possibly see it. I rather think I could, but am by no means confident that I could.'"

"He writes for the positions of the satellite and just where and when to look for it. I have not yet heard of the new satellite being seen with any telescope in the world except the Lick 36-inch. Suppose Mr. Cartwright and Mr. Cooley come to a definite understanding between them, in which the two is to have the satellite, the fortunate one then settling his difference with me."

New Observations of Mars.
The just issued number of Astronomy, a scientific magazine edited by Prof. W. W. Payne, of Carleton College, contains several valuable papers on the recent observations of the planet Mars. The first is by Prof. Edward S. Holden, who under date of August 18, explains the work done by the big Lick telescope in California giving his conclusions as follows:

"I may briefly state my individual conclusions, as derived from a comparison of my own observations of Mars at the opposition of 1875 and at all succeeding ones, to be that the changes in the surface features of Mars, as we now know them, are probably not capable of being completely explained by terrestrial analogies. What are we to make of the lake called Fons Juventutis, for example, which was a single object in 1877, which was not visible in 1879, and which has been both single and double during the present year? The dark areas on Mars may be water and the red areas land, but how are we to explain the faintly colored areas like Ihesperia or Deucalioneis Regio? Are they waste shoals like the grand banks of Newfoundland? Are they solid land or are they water?"

"Is it conceivable that an observer on Mars, examining the earth in any part of its recent history, would have seen any such amazing topographic changes as we have this year? It is not to speak of changes from opposition to opposition? It appears to me that a careful examination of the long series of drawings of Mars, which we owe to Prof. Schiaparelli and to others, up to the present time, will make it evident that there are enormous difficulties in the way of completely explaining the recorded phenomena by terrestrial analogies unless we also introduce serious modifications."

Prof. Pickering's Researches.
Prof. William H. Pickering, of Harvard College, who has been observing Mars in South America, writes at length under date of Arequipa, Peru, August 1, 1892. He gives with great detail a report of his observations, which showed many rapid changes on the planet, and in conclusion says:

"In seeking to explain these observations I would merely point out the fact that the changes occurred at a time when the snow was melting with great rapidity, that a dark channel suddenly appeared July 12, which had not been seen at the last previous observation of this region, June 13, that it shortly disappeared again, and that a few days after this event the Northern Sea largely increased in area temporarily, or at least that its southern shores became much darker."

"I think these changes cannot be explained by arean cloud effects. We have already observed large whitish patches upon the planet, which undergo considerable change in shape and extent from night to night. We are now studying them carefully, although we find them rather difficult of observation. These changes we are inclined to refer to clouds, although the matter is not so simple as it might at first appear. If these effects are really due to clouds, they are quite different in character from the other changes noted."

Other papers describing the observations made in various parts of the world are published, but they have already been covered in these dispatches.

CHOLERA.
Horsford's Acid Phosphate.
The cholera microbe will not live in acid solutions, and Horsford's Acid Phosphate is recommended as the most desirable for use as a remedy or preventive because of its beneficial effect on the nerves and process of digestion, as well as its tonic and strengthening effect on the whole system.

Half a teaspoonful in half a tumbler of water, with sugar if desired, makes a palatable drink.

Prevent action and perfect health result from the use of De Witt's Little Early Risers. A perfect little pill. Very small; very sure.

Keep your feet dry. Wear Cain's cork sole shoes.

\$1 only, triple-plated knives per set, large line pens and ball pens, lowest prices, at Reumann's, 105 Federal Street.

"Rosalie" and "Our Best" are the flours you want to use. Try either of them. They will give satisfaction.

Men's cork sole shoes at Cain's, 533 Market Street.

WAR DECLARED.
OLD METHODS FOUND WANTING.
OURS HEARTILY APPROVED.
IT IS VERY SIMPLE!
\$2 DOWN AND \$1 PER WEEK.

On This Remarkably Easy Plan Anyone Can Secure a Lot in NORTH WILKINSBURG SUBDIVISION!

PRICES, \$300, \$350 AND \$400 EACH.
Exceptional Opportunity for Your Savings.

This is the cheapest and most desirable plan of lots, advantages and inducements considered, now offered to the public. The plan is within 5 minutes' walk of the Hamilton avenue branch of the Duquesne Electric, and Wilkinsburg branch of the Citizens' Traction Lines.

Fare to the Center of the City, 7c.

Accessible to Schools, Churches and all city conveniences without the enormous city taxes. Entire plan Board Walked. Already six occupied dwelling houses on plan, and more under construction. Adjoins Wilkinsburg, a beautiful, thriving and growing district. Fruit and forest trees. You can get the purest of water for all uses at 20 to 30 feet. The ground not flat or swampy, but elevated just enough to please the majority. Lots front on 50-foot streets, with 20-foot alley in rear. This property is cheaper than anything near it and bound to increase in value, and that rapidly.

Old and young can place their savings in a sure investment by purchasing a lot in

NORTH WILKINSBURG SUBDIVISION.

Remember the prices and terms, \$300 to \$400 Each; \$2 Down, \$1 Per Week.

Sale Opens Monday, Oct. 3, 1892.

For plans and further particulars, call on

GEO. S. MARTIN & CO.,
147 Fourth Ave., 2d floor,

Or at our Wilkinsburg office, ROOM NO. 2, OVER BANK, Wood St., Wilkinsburg.

OPEN EVERY EVENING! FREE TRANSPORTATION! COME!

THE PARISIAN PRINCIPLE
Parisian Cloak and Suit Co.
OUR MOTTO: LOW PRICES SIXTH ST. & PENN AVE. YOUR MOTTO: SAVE MONEY

FREE GIFT. FREE GIFT.

In order to make our Grand Opening Fall Sale popular, we have decided to give FREE OF CHARGE a beautiful DOWN BED MUFF to match with each of the following bargains:

\$12.50 WORTH FOR \$7.50.

This means for you a 32-inch Latest Style Jacket of fine Cheviot, with full Shawl Revere, in fine XXX Electric Fur and Fur Head Ornaments—

NEVER BEFORE SOLD FOR LESS THAN \$12.50. AND A MUFF, WORTH \$3, FREE, TO MATCH.

\$18.50 WORTH FOR \$12.75

This means for you a long 32-inch Latest Style Jacket of fine Beaver, in black, navy, tan and gray, with full Shawl Revere of choice Eastern Mink, Baltic Seal or Natural Martin Fur, Rhadame Silk Lined—

NEVER BEFORE SOLD FOR LESS THAN \$18.50, AND A MUFF WORTH \$4.50, FREE, TO MATCH.

Take advantage of this Free Distribution Sale, as it will last only a few days.

IT PAYS TO TRADE AT THE PARISIAN.

003-947

OPTICAL AND Mathematical Instruments.
STEREN
THIS LEADS THEM ALL.
SMIT'S
932 and 934 Liberty St. and 703, 705 and 707 Smithfield St.

Javens
Iron City College.
N. W. COR. PENN AVE. AND SIXTH ST., PITTSBURG, PA.
23,000 GRADUATES.
THE LARGEST AND MOST PROGRESSIVE BUSINESS COLLEGE IN WESTERN PENNA

NEW ADVERTISEMENTS.
RECOGNIZING OUR RESPONSIBILITY!
WHISKIES.
BEST.
OLD EXPORT
JOS. FLEMING & SON,
WHOLESALE & RETAIL DRUGGISTS,
412 MARKET ST., COR. DIAMOND,
Pittsburg, Pa.

LUMBAGO,
Which these cold OCTOBER
RHEUMACURA
McKinnis & Chessman Mfg Co.,
616 PENN AVE.,
PITTSBURG, PA.

Oculist Prescriptions
A SPECIALTY
J. DIAMOND,
Eyes Correctly Fixed.

THE ONLY LICENSED DRUGSTORE IN THE CITY.
G. EISENBEIS,
WHOLESALE AND RETAIL DRUGGIST

THE GREATEST OF THE AGE.
WEAR NO OTHER.
THE ALVIN THEATER.

DUQUESNE, Leading Theater.
A Great Hit.
TAR AND TARTAR.

GRAND OPERA HOUSE.
HARRIS' THEATER.
HARRY WILLIAMS' ACADEMY

IT'S OPEN! THE EXPOSITION.
CHOICE FLOWERS, LOW PRICE

KAUFMANN'S
FORMAL MILLINERY OPENING
WEDNESDAY AND THURSDAY:
FRIDAY:
SATURDAY:

On these two days we will exhibit the most varied and vastest line of Ladies' and Misses' Hats, Toques and Bonnets ever seen within the four walls of a Pittsburg millinery house.

On this day we shall make a special exhibit of Mourning Hats and Bonnets, Veils, Mourning Trimmings, etc.

This will be Children's day, and, in honor of the occasion, we shall make a display of Juvenile Millinery (for dress or school) which in magnitude and magnificence will outrival and outshine any previous attempt of the kind made in Pittsburg.

Pattern Hats at Half Price.
This will be one of the leading attractions of this most attractive event: 65 beautiful French Pattern Hats expressly imported by us for our recent preliminary opening, and representing the choicest and most desirable Parisian styles, will be closed out for half price.

\$25 Pattern Hats go for \$12.50. \$35 Pattern Hats go for \$17.50. \$28 Pattern Hats go for \$14.00. \$40 Pattern Hats go for \$20.00. \$30 Pattern Hats go for \$15.00. \$44 Pattern Hats go for \$22.00.

Beautiful Souvenirs Given Away!
Every lady attending our Formal Grand Opening of Millinery will receive a handsome keepsake.

SOMETHING ABOUT CORSETS.
We carry the best and most celebrated Corsets made, and sell them at fully one-third less than regular drygoods or notion stores.
39c
49c
75c
\$1
\$1.69

FREE! With every Corset (costing not less than 75c) we will give a 3-yard long Corset Lace to match Corset, free of charge.

Our Ladies' Underwear Sale
Now at its height. Hundreds of economical shoppers, taking advantage of present special prices, are laying in their full Winter supplies. You can save from 25 to 33 per cent by buying now.

KAUFMANN'S
Fifth Ave. and Smithfield St.