#### THE HEAVENS IN FEBRUARY

The Whole of the Constellation of see one; but that is because the Leo Now in View—Look for Dene- eclipse, when it happens, can only be hola and Gamma Leonis and Mars Both Visible to the Nak-

se of the Sun February 8-Visile as a Partial All Over the United -Begins About 10 A. M.-Standard Time—Ends After

University Observatory Staff.)

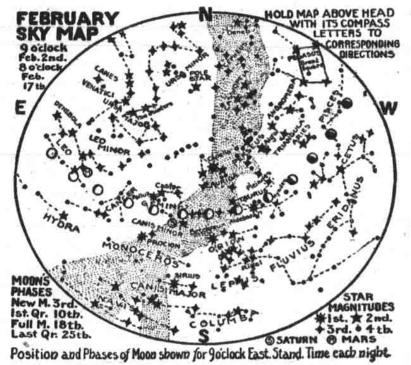
February brings to our view the whole of the constellation of Leo, the Lion, only part of which could be shown on the January map. This is one of the so-called zodiacal constellations, that is one of the constellations through which the Sun passes in his yearly round of the celestial sphere. This group of stars seems to have been connected with the figure of a lion in all the ancient astronomies and owes its particular importance to the ancients to the fact that the sun occupied a position in this very constellation at the time of the summer solstice at a period in history about corresponding to the dawn of scientific

Owing to the motion of the celestial pole called the "Procession of the Equinoxes," the sun is now in the group of the Heavenly Twins at the it is now. It is approaching the position is that of new moon earth at the rate of twelve miles per second and is now about thirty, three light years distant from the solar sys- because, in order that the moon may

seen as a total eclipse over a very limited area. Perhaps us has seen many partial eclipses, but they are of less interest as spectacles and of little or no value to science. The present eclipse will be seen as total only over a narrow strip passing over Colombia and Venezuela and across the sea to the Azores; but as a partial the eclipse will be visible all over the United States. In the vicinity of Washington and New York the eclipse will begin approximately at 10 o'clock in the morning and end after noon. In the central part of the country it will begin earlier.

In trying to understand how eclipse of the sun come about, bear in mind that, as the earth revolves about the sun, so the moon revolves about the earth, being now between us and the sun, now outside of the earth's orbit. The earth's orbit about the sun all ies in one plane, called the ecliptic; neither body ever gets out of this Similarly with the earth and plane. The moon's orbit around the moon. earth lies in a plane, and this plane is not the same as the above-named ecliptic plane, but makes only a small angle with it. Now, it sometimes happens that in his revolutions about the earth the moon gets right in between the sun and the earth in such a way as to obstruct the light of the sun on its way to the earth, exactly as time of the Solstice. Of Regulus, the someone might walk between you and royal star, the brightest of Leo, we the lighted lamp in your sitting room. spoke in last month's article; the The lamp is then in "solar" eclipse. next brightest is Denebola, the Lien's Inasmuch as the moon must always Tail, the unlucky star. Denebola is a be directly between the sun and earth star of a bluish tinge and seems to at a time of solar eclipse, the phase have been brighter in olden times than of the moon which corresponds to this

Not every new moon will bring us some kind of solar eclipse, however,



tem. In intrinsic brilliancy it is about | obstruct our vision of the sun, it is ten times as great at the sun. Gam- necessary for him to be directly, or ma Leonis, the bright star just north of Regulus, is a well-known double star. A small telescope will reveal the two components and show them of will have the usual occurrence of

are visible to the naked eye this as the ecliptic, or earth's plane, an month at the time of our map. Saturn eclipse would occur at every new you will find in the constellation of moon; for then the moon would al-the Gemini, below and to the west of ways be in the same plane with the the two bright stars, and Mars in earth and sun and could not help get-Leo, near Regulus. Both can be dis- ting directly in between the sun and tinguished from the neighboring bright stars by the absence of the twinkling.

The Total Solar Eclipse of Feb. 3. sun's disk is, indeed, one of the most important, as well as interesting, of astronomic phenomena and one which that we shall have an eclipse. is not exceedingly rare. Yet it is course, at the intersection of these true that very few people ever get to

## IT'S YOUR LIVER! YOU'RE BILIOUS.

Don't stay constipated with breath bad, stomach sour or a cold

Enjoy life! Liven your liver and bowels tonight and



Tonight sure! Remove the liver and bowel poison which is keeping your head dizzy, your tongue coated, breath offensive and stomach sour. Don't stay billious, sick, headachy, constipated and full of cold. Why don't you get a box of Cascarets from the drug store now? Eat one or two tonight and enjoy the nicest, gentlest liver and bowel cleansing you ever experienced. You will wake up feeling fit and fine. Cascarets never gripe or bother you all the next day like calomel, salts and pills. They act gently, but thoroughly. Mothers should give cross, sick, bilious or feverish children a whole Cascaret any time. They are harmless and children

very nearly, on the exact straight line joining the sun and earth. If he be too much above it or below it, we new moon without the eclipse. If the Two of the Planets, or Wanderers, moon's orbital plane were the same earth as it turned about the earth We have seen above that the moon's orbital plane makes an angle with that of the earth, and so it will be A total eclipse or darkening of the only when we have a new moon at the time that the moon in his orbit is in a place very near the earth's ecliptic two planes the new moon will be in the beginning of this war. both planes at once; so we would have an eclipse then, and also if the new moon occurs at places very near this intersection point, (node.)

passes the sun he covers up only the central portion, and we see around the black moon a bright ring of the sun's disk. This is called an annular eclipse. There will be one of those on July 29 of this year, visible only in the regions about Australia.

The Saros or Repetition Period. It is a very interesting fact that, if certain eclipse happens on a given date, in exactly 6,585 days we shall have an absolutely similar eclipse occurring. This period, called the Saros, was discovered long ago by the ancient Chaldaean astronomers. It is the lowest common multiple of several of the lunar periods, so that after this number of days conditions are cound to repeat themselves.

What does the fortunate one who finds himself in a location of visibility of a total eclipse really see? As the moon slowly creeps across the face of the brilliant sun no apparent difference is at first noticed in the general illumination. Only as it approaches the cresent shape we notice that images of the sun formed on the ground by the small spaces between leaves on a tree are of a crescent shape. But as the moon silently devours more and more of the sun's disk, the carkness mysterious and unearthly, increases rapidly, till only a small thin strip of the sun is left. Then suddenly the gloom reaches its maximum, and the sun is entirely cut off. But in that same moment there bursts upon our view the boundless beauty of the silvery cerons and the protuberances flaming rose-red in great streamers about the blue-black shadow of the moon. Three or four minutes this lasts, and then suddenly a shaft of sualight strikes the earth and melts away the glorious color display, not to be seen again until the next eclipse.

ONE WAY.

"There's nothing in art. I can't make a living at it." "Maybe you can. Try selling corre-



# PALAIS ROYAL

## MONDAY IS YARD GOODS DAY

And you are invited to be present at our initial showing of the new Spring Materials. Beautiful Plaids, Stripes and large and small floral designs in 40-inch Voiles at 20c and 25c yard. Lovely Splash Voiles in stripes and flowered effects at 15c yard. Other pretty wash goods at 10c, 122c on up to 50c yard. New Percales, New Ginghams; New Hydegrade Galatea; New Shirtings and New Waistings just in.

Come Monday and look over our large stock of Spring Goods.



#### Specials in Silks.

## 40-in, Crepe de Chine, yd.....98c 36-in. Black Taffeta, yd. . . . . . 95c 36-in. Faille Silks, yd. . . . . . . 89c 36-in. Fine Messalines, yd. . . . 95c 36-in. Fancy Wash Silks, yd. 49c 32-in. Striped Wash Silks, yd. 50c

White Goods Specials

100 pcs. Long Cloth at . . 79c Bolt

50 pes. Long Cloth at . . . 98c Bolt

Checks, yd ..... 9c

yd. . . . . . . . . . . . . . . 15c

Fine Dimities, at 10c, 121c, 15c,

10 pcs. 12½c grade Linene at

36-in. Extra Heavy Pajama

40-in. Heavy White Pique,

## Wool Goods Specials

Colored Domes 32-in. Devonshire C	
32-in. Viyella Flam	nels, yd <b>49c</b>
54-in all-wool Serg	es, yd <b>89</b> c
44-in. all-wool Serg	ges, yd <b>75</b> c
42-in. new Colored yd.	Checks,
54-in. Fine Wool C	hecks, yd. 98c
56-in, all-wool Chec	ks, yd \$1.39

Best Hydegrade Galatea, yd. 15c

50 pcs. Dress Gingham, yd. . . 9c

36-in Windsor Percales, yd. . . 10c

Extra Heavy Chevoit Shirtings,

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## Colored Wash Goods.

	Household Specials.	
	27-in. Embroidered Batistes, yd 25c	
ı	yd 25c	
١	27-in. Embroidered Voiles,	ı
ı	27-in. Fancy Batistes, stripes, 10c	ı
I	32-in. Splash Voiles with figures, yd 15c	ı
ı	yd <b>12½</b> c	l
I	Beautiful Mercerized Voiles,	ı
١	Pretty Stripes and Floral Effects yd10c	ı
ı	D. 44 C4 : 170 1700	ı

Household Specials.
6 Bolts 72-in. Beautiful Damask, yd
Bolts 60-in. Fine Damask, yd
2x90 Hemstitched Sheets, heavy for 59c
42x36 Pillow Cases, at 10c
Large Huck Towels, at doz. \$1.00

#### Calanal Wash Canda

yd		Colored Wash Goods.
40-in. large Floral designs, yd		40-in. Voiles, stripes and plaids, yd 20c and 25c
and stripes, yd 25c and 35c 40-in. Colored Silk Marquisettes, yd 50c Colored Embroidered Voiles, yd 25c and 50c 27-in. Pongee Linens, all colors,		
yd 50c  Colored Embroidered Voiles, yd	8,	40-in. Flowered designs on plaids and stripes, yd 25c and 35c
5c yd 25c and 50c 27-in. Pongee Linens, all colors,	317.0	yd 50e
	5с	yd 25c and 50c
	5с	

#### 25 pcs. Flowered Curtain Scrim.

\$1.25 and \$1.50 values .... 89c 500 Royal Society Packages, at one-half price.

Paul Jones Middy Blouses,

White, cream and ecru Hemstitched Curtain Scrim, yd. 100 Royal Society Embroidery Floss,

4 skeins .... 50

#### OVER 200,000 ARMENIAN

20c and 25c yard.

#### REFUGEES NEED RELIEF

matic developments on the European battlefields it has undoubtedly shown least for the Armenian people, whose existence has been shattered from Speedy marches of the Russo-Ar-

nenian forces into Turkish Armenia, a heroic battle for self-defense followed by a victory of the Armenians Not every eclipse will be a full and of Van and the expulsion of the total darkening of the sun's disk; the Turks from that ciry, a disastrous remoon may pass in such a way as to treat of the Armenians into Transcover up only part of the disk. Again caucasia for safety and other events it may happen that the moon is so of a similar character have succeedfar from the earth that when he ei ea h other with dramatic rapidity. And now, after a year of such vicissitudes, about 180,000 refugees, the last remnant of the Armenian element in Turkish Armenia, are quar-

> the coming winter. menians, Nestorians and others now uartered in Persia.

The greater part of these Armenian and province of Van; the remainder

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ERIVAN, Transcaucasia, December to be the Armenian element in the 8 .- If this war has displayed few dra- various Armenian provinces of Turkey. torious in their own homes as re-Made Herolc Defense. At the outbreak of the Russo-Turk-

ish War the speedy advance of the ditions, deprived of all elementary several tragical turns on this remote Russian army into the Euphrates Transcaucasian front - tragical at Vailey saved almost the whole Armenian population of the district. Then Armenians of Van and of the province fought a heroic war of selfdefense, captured the town from the Turks, and thus saved themselves from the general massacres which the Turks carried out in Armenia and Asia Minor Though they bravely defended the civilized nations of the west.

themselves against great odds, the Armenians of Van had to retreat in the rear of the Russian army when the latter retired toward the end of July owing to the Turkish offensive. This withdrawal of the whole Armenian element of Van was effected under the most adverse circumstances. Only twenty-four hours was given tered within the borders of Russian them to quit their homes, and there territory, to tide over the rigors of were very scant, means of transport Some 250,000 people, already sorely According to an official estimate tried during the previous few months, here are some 180,000 refugees scat- had to march a distance of more tered in four provinces of Russian than 100 miles into Transcaucasia. Transcaucasia, and some 30,000 Ar- They had no provisions whatever, and, exhausted by hunger and thirst walking in dust and under scorching August sun, they suffered refugees have come from the city horribly on their journey. Those who lagged behind were constitute the aggregate of what used Kurds; many women threw themselves into the River Bendimshu in order to save themselves from Kurdsh brutality; others dropped their children and continued the frightful march, which lasted some twelve

Virulent Epidemics.

ly strained and fatigued. Terribly these unfortunate Armenians reached Etchmiadjen (where the Catholicos, head of the Armenian church, resided). Erivan and other Armenian centres in Transaucasia, to find few measures taken for the reception of this harried and exhausted mass of humanity. Typhus, spotted fever, dysentery, and later on, cholera and other epidemics, broke out in virulent form and literally decimated there homeless and foodless refugees. There were very few doctors or nurses to attend the sick, and still less accomnodation was provided for feeding and housing the refugees, who, owing to the lack of food and attendance, died like flies. Some thirty thousand of these refugees have died since August, and in spite of the energetic efforts since taken by Armenian and Russian organizations to deal with the destitution and its fatal conse-quences, the rate of mortality is still earfully high, amounting at present to something like a hundred a day; and, seeing that winter is already here, it can hardly be expected that the rate will decrease,

An Army of Orphans Some 20,000 orphans, whose parents have fallen in the last few months, have already been taken care of in

orphanages and convents. Seven hospitals have been improvised at Etchmiadien, and serveral others have been started or are in the of opening at important refugee camps in Transcaucasia, Yet cently as last May, are crowded into camps under the most unhealthy concomforts of daily life, trying to live on less than eight cents a day per head, which they get as relief from the various distributing organizations. The existance of one of the oldest Christian nations in the East, the arger portion of which has already been massacred by the Turks, is now hanging in the balance, and one may say that its ultimate fate rests with

#### WILLING TO TRY.

Mrs. Peck-"They've talked over 2,500 miles by wireless. I wonder if you could hear me that far away, Henry Peck (wistfully)-"I wonder!"-Judge.

To give concrete columns for buildings wide foundations, a German engineer has invented a method for blasting away the earth with dynamite, making a hole which soft concrete quickly fills.

## HOW TO LIVE ONE HUNDRED

(From Chicago Herald.)

menian population, happy and vic- centenarian of Downers Grove. Here are some of the rules that have govhave been lived in Chicago's western suburb.

"Mind your own business, "Don't quarrel with your neighbors "Pay for what you get and when

ou get it. "Live within your means. "Laugh every time you find some-thing to laugh at.

"Don't eat between meals.
"Eat plain food and plenty of ft. "Don't drink intoxicating liquors. "Don't smoke or chew tobacco.

'Keep up your interest in the new of the world "Go to bed early with a clear con science and get up with the birds. "Sleep eight to nine hours out of the 24.

"Don't worry about things you can't help.
"Work and exercise outdoors as as possible."

A large Eastern railroad is instructng its rignal erectors and testing its engineers' knowledge of signals by means of motion pictures shown in car which travels over its lines.

SHIRT SLEEVES IN THE PULPIT.

(Pittsburgh Chronicle-Telegraph.)

How to live to be 100 years old is to his congregation in a gray fiannel told by "Uncle Cape" Stanley, the shirt and old trousers, without a coat and with a red bandanna handkerchief sticking out of his hip pocket, erned his own life, 74 years of which may imagine he is making a hit with the workingmen who go to hear him. but the chances are they would be glad to see him conform a little more closely to the conventions. In their well-meant endeavors to be "good fel-lows," "all-round mixers" and "get down to the level of the people" ministers often make the mistake of overdoing the thing. In this particular instance the preacher decries the placing of too much emphasis on the matter of dress and yet he is actually going out of his way to accentuate oddity in attire for the purpose of attracting attention. There is no reason to suppose that workingmen care to be reminded on Sunday of the kind of clothes their occupation compels them to wear during the week or that their respect for the pulpit is increased appreciably when the occupant goes coatless or assumes a garb that is manifestly inappropriate to the surroundings.

Whatever conditions may be in other lands, in the United States laboring men are accustomed to wear clothing of excellent fit and quality and to take a pride in doing so.

## Study the Writing Machine Question



Before you rent a Typewriter and your choice will be the

## Underwood

Here are a few Facts Distinctly Underwood that will guide your selection

## SIMPLEST IN CONSTRUCTION EASIEST OF OPERATION

CHOICE OF WORLD'S CHAMPION TYPISTS "The Machine You Will Eventually Buy" Asheville, N. C. Room 3, Electrical Bldg.

