WEEKLY OREGON STATESMAN, TUESDAY, DECEMBER 6, 1904.

RARE PIANO BARGAIN

E have had placed with us by a private party, a beautiful upright piano which we are authorized to sell for \$200.00.

This instrument was purchased for \$375 less than ten months ago, and does not show a days wear.

Case, a beautiful figured oak, largest size four pedals, etc., altogether a beautifu! piano and one of the rarest bargains we have ever come across. The instrument will be ou exhibition in our store after Wednesday for A FEW DAYS ONLY. If not sold immediately the piano will be shipped east.

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"Innumerable Stars"

of which our earth forms a small, but to us highly interesting and important member. In this article, we shall go beyond its boundaries, and enter the boundless domain of sidereal space. The reader, no doubt, has often met with the expression "innumerable stars." Looking at the sky with a telescope of great magnifying power, the epithet "innumerable" becomes li-terelly true but the keenest naked ave terally true, but the keenest naked eye eannot at one time see more than

The fixed stars have been divided into classes according to their magnithe most brilliant of all, exceeding in brightness many times the standard first magnitude star Altair, in the constellation Aquila, while Altair is considerably brighter than Pollux in the constellation Gemini, the last in the list about 60 stars of the second, 200 of the third, etc. The stars of the first six

magnitudes are considered visible to the unaided eye, and with the seventh magnitude the telescope stars begins, whose number increases immensely with the magnifying power of the telescope. Knowing the angle under which the radius of the earth is seen from the moon or a planet, and which technically is called its parallax, the calculation of the distance of the moon or planet from us is an easy problem, but the fixed stars are at such enormous distances from us that there is no such parallax.

No telescope, no matter what its magnifying power, has ever revealed a visible disk of a fixed star. For this reason, astronomers tried whether the mmense radius of the earth's orbit, amounting to 92,000,000 miles, would present a parallax, ca, hed the annual parallax of stars, in order to enable hemselves to find their distances. The experiment has thus far proved sufficiently successful in the case of 36 stars. The distance of even the nearest fixed star, if expressed in miles, is so immense as to become unmeaning, and in order to bring these sidereal

understanding, a new unit was chosen. Light is transmitted through space at rate of 186,000 miles during a second of time, and the space it would traverse within a vear is called a light year. This light year is the unit of sidereal distances. It is certainly a thrilling and awe-inspiring fact, that the nearest fixed star is a little more These constellations move closely than three light years from us. This is the first magnitude star, Alpha Centauri, not visible in our latitude. The Pole star is about 50 light years from us, so that were It now expunged out of existence it would still shine to us for 50 years to come. The reader can easily imagine what the vastness of orbs must be which at such colossa! distances are still visible. Compared with most of the fixed stars, our own

sun, despite its vastness, dwindles into

(Written by W. A. Gathright, Dab-neys, Va.) In our previous articles we have briefly described that glorious system of which our earth forms a small, but known with any degree of certainty. The old theory that they are stars so densely crowded together as to present that peculiar cloud-like appearance has been exploded. It is an interesting question whether the stars form a system. Judging by analogy from our own system and the motions of the binary stars, it is highly probable, if not ab-solutely certain, that the great law of gravitation prevails between the stars, and is consequently universal. Quite a number of stars have been caught at proper motion, and how can such a momagnitude, although they are by no means of the same brightness, Sirlus, the most brilliant of all constitutions, gested itself to more there are the same brightness and the same brightness are by no same by no s omer; nay, the celebrated German as tronomer Madler actually announced that the brightest star in the Pleiades was this central sun around which not alone our own sun, but the visible universe revolved. The idea is a very of the first magnitude stars. There are pleasing one, but unfortunately it has been altogether exploded by later and more thorough obserations.

The Constellations,

Looking above us on clear November evenings about 9 o'clock we see the heavens have commenced to put on their accustomed winter splendor, for Orion, the most magnificent of all the winter constellations, is ust coming into view. The square of Pegasus is now a little past the meridian.

South and southwest of Pegasus is the zodiacal constellation Aquarius, which is represented by the figure of a man pouring water from an urn. The ancient Egyptians thought the setting of Aquarius caused the Nile to rise by the sinking of his urn in the water. Capricornus, the Goat, is now on the point of setting. In a northerly direction from the Goat we see Aquila, the Eagle, which contains that bright first magnitude star Altair, which lies in the Milky Way and may be easily distinguished by reason of its being the center of three stars about two degrees apart in a straight line, bearing northwest and southeast.

If this straight line be continued. about thirty-five degrees in a northdistances within the power of human west direction it will pass nearly through Vega, a very bright star situat-ed in Lyra. East of the Eagle we see that beautiful little constellation containing five stars in the shape of a diamond, known as Delphinus, also called Job's Coffin. Cepheus and Cassiopeia

around the North Star and may be seen in our latitude at all hours of the night when the sky is clear.

Southeast of Cassiopeia is Perseus. East of Perseus is Auriga, containing known as Capella. To the southward now the second sign and third constelnomy was first cultivated in the East,

to that Country.

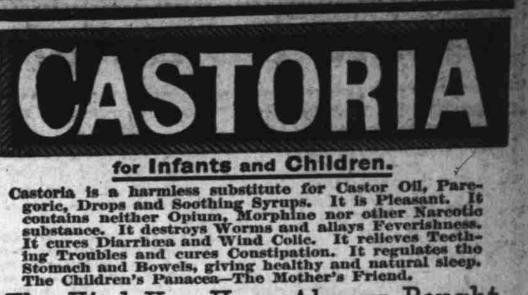
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gamot's confession was the most sensational incident of the day, and took of the members of the family were place when the court convened at the aroused. Constable Smith was called Claude Strahan, a new attorney in to the identity of the robbers can be 15th, continuously in Oregon, and all of afternoon sitting. the case, arose and stated: "I appear found. for Frank Wolgamot nd wish to with-

draw his plea of not guilty and substi-

"do you so desire !"

"I do," was his answer. "What is your plea?" asked the court.

"Guilty." Following right upon the heels of Wolgamot's confession came Henri's announcement that the prosecution had decided to abandon the case against Miss Ware. Henri stated to the court that he would not ask the jury to refurn a verdict in the case where he him-I day

the time, with the exception of a few. days, in the city of Portland; further-

more, it was known to John H. Hall, U. A Costly Mistake. tute that of guilty." Blunders are sometimes very expen- S. District Attorney, for more than a "Mr. Wolgamot," asked the court, give. Occasionally life itself is the week before I left Portland, that I in-S. District Attorney, for more than a price of a mistake, but you'll never be tended to leave for Washington at the wrong if you take Dr. King's New Life time I did. Therefore, if my restimony

was regarded as important, there was ample opportunity to secure my attendsuggested to me that my testimony in

But it is not alone the size and disyear opened when the sun was in Taurtance of those orbs that fill us with us; and the Bull for the period of two wonder and awe; but also the variety thousand years was the prince and leadthey present as to color and their coner of the celestial host. The Ram sucnection with other suns. Speaking of eeeded next and now the Fishes lead double stars, we must distinguish bethe year. tween such as are optically double; that is, as are simply in line but any Serpens and Sagittarius, which last

distance from each other, and such as are physically double, and under the influence of each other's attraction. The latter presents a trait which is wanting in our own solar system, viz .: neer ceasing flight of time.

a sun with its satellites revolving another sun with its subordinated members. Of such binary systems, as they

are called, we know now at least 200. But this is not all. Stars have been separated by telescones into more than two stars, thus physically connected, so that we hear of triple and multiple stars. There is a star in the beautiful winter constellation Orion, which con-

sists of six suns revolving about each ITALY SHOWS APPRECIATION OF other-a sextuple star. It is highly probable that each of these six suns has its own planets revolving about it whose inhabitants, if there are such

would enjoy the unspeakably grand MORGAN HAD PURCHASED IT spectacle of six rising and six setting

baffles the human mind, and thus na-Variable Stars.

It has been observed that some stars.

ished from view, and this brings us to were gradual and regular; in others quite irregular. One of the most re markable of the variable stars is in the

> o'clock in the November evenings, may be seen near the meridian, and between the fine constellations of Andromeda and Auriga. This variable star, Algol, is the easternmost star in the handle of Andromeda. It changes from the secend to the fourth magnitude in the short time of 3" hours; and back again stolen from the Cathedral of Ascoli in in the same time; then it remains thus 1902 and subsequently purchased by for nearly three days, after which the Morgan. same changes recur. Another very re-

markable variable star is in the constel-Bridwell & Craven, the grocers and hardware men, are building a large lation Cetus, and is called Mira, or the Wonderful Star. It was the first variable star known. Within a hundred warehouse just opposite their grocery years it changes from the ninth to the store.

fourth and even second magnitude. The Dr. Nehva's new house is growing second in the list of first magnitude rapidly. It is now under roof and the stars is Eta Argus, not being visible in this country. In 1842 it came next house when completed will be one of the finest residences in the town. Halto Sirius, but since 1865 it has been of leck & Poole of this place, are the, builders.

Mr. Newman's new house is giving the east end of town an air of prosper-ity. It lacks considerable of being completed. The protracted meetings at the Evan-

gelical church are still in progress and are well attended. The meetings are ample of a temporary star. It is not "I was for four months prior to my known whether such temporary stars being conducted by the pastor, assisted lesving for Weshington on November are variable ones of long periods of inby Miss Bess E. Cornelius, a talented contralto singer of Salem, who is de-lighting her audiences with her - wer visibility, nor has any reliable theory been established in regard to both either variable and temporary stars. in song.

Star Clusters.

Star clusters are groups of stars losely packed together. The most remarkable and familiar example of such clusters is the Pleiades, of which seven stars may be seen by a tolerably keen

The Kind You Have Always Bought Pracsepe in the zodiacal constellation nuce by subpoent, or, even had it been suggested to me that my testimony in the case was desired, I certainly should have postponed my starting East, and Bignature of Char Hitcher: would have gladly gone on the witness nificent objects in the heavens. Star stand and given any testimony within clusters are always resolvable by a tele- States my knowledge bearing on the case." scope, but not so with those peculiar Results.

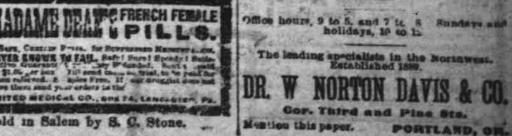
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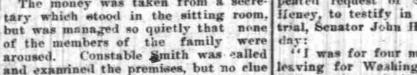
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