Prove four elliptical funnels, each 28 feet in diameter. Her freeboard will be somewhat greater, being about 52 feet at the bow, 45 feet to the level of the main deck, 62 feet to the boat deck amidships, and 42 feet at the stern. A The second seco 45,000 horse-power engines sufficient, calling for 21 knots sea speed.

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An Ingenious Agriculturist.

At lagenious Agriculturist. Col. Frank Touvelle, a rancher living mear Medlord, Oregun, is said to have produced a deep-rooted vine which brings forth three crops of berries in a senson, which result has been achieved by grafting alfulfa roots on the roots of the strawberry vine. Alfalfa roots deep-ly, and produces three to five crops a year without irrigation. It occurred to him that strawberries might do the same if the vine could be made to extend down far chough, so as to receive moist-ure from the soil throughout the season.

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The Poison of the Borgias,

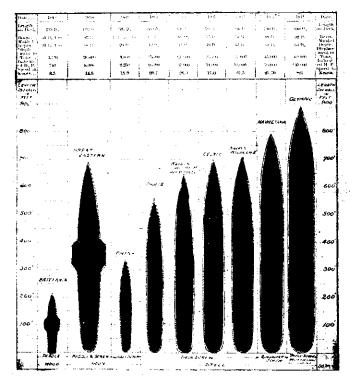
Dr. Jagot, of the Angers Medical School, claims to have discovered the secret of the mysterious poison of the Borgins. Two poisons, apparently, were

(Specially written for the "Weekly Graphic" by Clement L. Wragge, F.R.G.S., etc.)

What a marvellous history is that of our little planet Earth, and how few, amid the excitement of horse-racing, bridge, and other such things, care the proverbial "two straws" about it! How very few ever pause to think of the "Romance of a Stone," picked up at ran-dom from any river-bed: to how few the history of New Zealand—carved in the archives of those faithful historians, the mountains, plains, and rivers—anneald history of New Zealand-carved in the archives of those faithful historians, the mountains, plains, and rivers-appeals! People, in fact, have no conception of the extreme age of the basis of this country, replete with information to those who will only take the trouble to read and understand-praying to that Royal Arch Freemason of the Supernal Whole, the Divine Architect and Mathematician, for guidance and light. Fiat lux! What a meaning in those words! Let the scales fall from our eyes-behold!-and read our theorem of the past. (1) Nearly a thousand millions of years ago this planet was hurled off from the sun by a process akin to that of the disintegration of the radium atom, and at once began to spin on its axis with the

The Romance of the Earth.

at once began to spin on its axis with the anuaring velocity of two rotations per hour. It was then in the vaporous state —and on through vast ages it began to solidify, while the rate of rotation slow-ed down—and internal fires and inherent



GROWTH OF THE TRANSATLANTIC STEAMSHIP FROM 1840 TO 1911.

This is the contract horse-power and speed.

used, one slow and the other rapid in operation. The former appears to have used, one slow and the other rapid in operation. The former appears to have been arsenious acid, commonly known as arsenic, which is only slightly soluble, and therefore acid slowly, while the quick poison was probably one of the sol-uble preparations of arsenic which act almost instantaneously. It is not, how-ever , positively proved whether the poi-son of the Borgias owed its effecty to arsenic, to the ptomaines of putrefaction, or to both combined.

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Largest Dry Dock in the World.

The contract has been awarded by the Intercontract has been awarded by the Navy Department to the San Francisco Bridge Company for the construction at Pearl Harbour, Hawaii, of what will be the largest dry dock in the world. The masonry and cement portion of the dock alone will cost 1.670,000 dollars. Plans have been drawn for a complete ration of alone will cost longino dollars. Finan have been drawn for a complete system of defence for the harbour, and the con-struction of these defences and of the deck will proceed simultaneously.

forces caused eruptions and upheavals the extent of which it is difficult to grasp. (2) As the solidifying process con-tinued, and when the Farth had evolved sufficiently to support human life, the soul-wave of mankind was transferred by etheric vibrations from a planet or sub-planet that could no longer support it and that planet was probably the and that planet was probably the moon.

When this took place the equator (3) (a) when this took place the equator probably cut the ecliptic at right angles, and the poles of the ecliptic and those of the Earth coincided, giving alternately a vertical and nadir sun at the North and South Poles. (4) Croll's law of eccentricity of orbit

and also precession operated, and enor-mous periods of time were involved in the process.

(5) When the first creatures came by (b) when the first creatures same by electric operation, whence evolved main, the sun occupied the left-hand focus of the elongated earth's orbit, the axis was horizontal, or nearly so (instead of two-thirds of a right-angle), and the sun at the summer solstice of the northern hemisphere was vertical at the North Pole, where, during the opposite season (when the earth was travelling more apidly), was a short, dark, steamy and

(when the earth was travelling more rapidly), was a short, dark, steamy and reeking tropic winter, analogous to a night on the banks of the Anazon. (6) The human life.germ-be it under-stood-first, we maintain, inhabited the polar north, and from these creatures was developed the great Lemitrian or pre-Aryan root-race about 18,000,000 years ago, and from them the rest of mankind. Lemuria, which was the most ancient continent, was thus the cradle of the human race, and was co-called on account of the monkey-like animals, early man, that first inhabited it. It extended from what is now Spitzbergen across Central Asia and the Japanese and Malayan Is-lands to the Carolines, Tonga, South-Eastern Australia, and New Caledonia; and not only so, but it covered nearly the whole of what is now the South Pacific, thus embracing New Zealand, fiji, Rarotonga, Tabiti, and Easter Is-land; and a kind of huge peninsula linked it up with Antarctica, and probably also Tierra del Fuego. Another huge Le-nurian peninsula took in Southern India and Ceylon, and extended south-west-wards to Madagasear and East Africa. (7) In those remote times nearly the whole of the Southern Henisphere was

and Ceylon, and extended south-west-wards to Madagasear and East Africa. (7) In those remote times nearly the whole of the Southern Hemisphere was glucial, save for a brief tropic summer, when the melting of the ice caused such flooding as accounts for many a ravino in the New Zealand of to-day. (8) Further tremendous periods of time elapsed, and conditions became modified, and later totally altered, by the opera-tion of what is known as Croll's Law. The sun thus became in the right-hand focus of the ellipse, and the once genial Northern Hemisphere then became glacial, save, in turn, for its brief tropic summer. In this case, as in paragraph 7, it will be understood that the accumulation of the ice in the two hemispheres, during the long winters respectively, far over-halanced the brief tropic heat at the pole, but while the vertical sun operated in this case as in the other, the floods and erosive action of the melted ice carved in no small degree the gorges of Bitain and Northern Europe, and were mainly responsible for the Bunter con-glowerate, an ally of which is found in Southern New Zealand. (9) In consequence of the growing morth-ern ice: the pure-Arvan root-face was

(9) In consequence of the growing north. ern ice, the pre-Aryan root-race was forced to migrate to the Southern Hemiforced to migrate to the Southern Hemi-sphere, which had then become genial across that old romantic lanil, Lemuria, and from it, by Mongoloid migrations, de-veloped the Moriori Polynesian and Maori races, as we now know them. And Maon races, as we now know them. And the Maon history is one of absorbing in-terest in connection with the subsequen breaking up of Lemuria. Think of the human tooth which we have seen alleged to have been found in the Whangarei limestones.

(10) The Easter Is'and statues are repre-(10) The Easter Is and Statues are repre-sentative of the root-race, and the inserip-tions on the rocks in Easter Island which have been translated confirm and practically describe the increasing cold in the Northern Hemisphere, and the mignific a formesid

in the Northern Hemisphere, and the migration aforesaid. (11). The megalithic or ancient stone track route from Ireland and Western Europe, through Portugal, Egypt, India, Mongolia, Japan, Java, the Curolines, Tonga and New Zealand, onward to Ta-hiti and Easter Island, is quite in accord with the foregoing; and remember the luman remains lately discovered in France, which date back from 200,000 to 500,000 vers.

(12). Hence the information given by Egyptian priests to Heredotus that the sun did not always rise and set where it does now was, we are of opinion, correct.

(13). Owing to the Earth contracting (15) Own to the network of the second Fire and ice were the destroying factors, and from the force thus let loose equili-brium was destroyed, and the Earth's axis was shifted to an inclination of about two-thirds of a right angle, as now. Yet regular axial change also operated as indicated in paragraph 15. This was probably 4,000,000 years ago. And New Zealand is ever so ancient, and is a rem-nant of the old Lemurian continent. (14). The tattooing of the Minoris on their faces and on cances has doublies

their faces and on cances has doubliess come down through enormous ages; through Mongoloid and Aryan sources; through Mongoroid and Aryah sources; and it represents the spiral motion of the sun to and from the vertical in North polar regions when the axis of the Earth was horizontal to its orbit. Spikes on houses have a pre-Aryan origin, and refer to ancient sun-worship, and jt must be recollected that Europeans are an off-shoot of the old Aryan stock. (15). Be it ever-remembered that axial

secular change is, we are sure; a fact, and that this is the Great Adjuster (apart from precession and eccentricity)) with respect to climatic variations and - (apart from precession and eccentricity) with respect to climatic variations and zones on a grand scale, and may be likened to the regulator of a watch. The next axial shift will probably be when the great snow and ice cap near the South Pole carries away, as give way it must in time, for while it is accomulating it is also being undermined very gradually but ever so surely by the comparatively warm northerly winds that are co-relative to the southerly blizzards experienced by Lieutenant Shackleton. When this take place — some thousand or more years ahead—such a tidal wave will tear up the Atlantic as will in a great measure swamp Western Europe. Sir Joseph Ward will then have been forgotten. Thus axial changes may be sudden and also regular; and we affirm that there is an actual motion of the pole among the "fixed" slars, apart from precession, of about three minutes of are per entury, which is enough to carry the poles through a complete revolution in 720,000 years or thereabouts. Thus the supposed limits of obliguity, as alleged by La Place, years or thereabouts. Thus the supposed limits of obliquity, as alleged by La Place, have been obtained from erroneous premises, and are, we maintain, without any foundation in fact.

(16). Bearing in mind what has been said, and also regular axial shift tempo-rarily masked by sudden disturbance of

said, and also regular axial chift tempo-rarily masked by sudden disturbunce of equilibrium, all geological, climatic and ethnological changes at once become clear, and the history of the Earth can be read like an open book through the long ages past; while the existence of remains of tropical flora and fauma near the polar circles is no longer a mystery. In considering the foregoing, which will set people a-thinking, we must not forget ancient records — apart from the light thrown on the matter by the inscriptions of Easter Island. From earliest times the old scriptures of the world have re-ferred to the inversion of the trerestrial poles through vast periods. Thus three was also a time when the axis of the Earth would have been directly upright to the celiptic, and there would have been constant spring, the intensity of which would only be modified by change of lati-tude. The Zoroastrian sacred books par-ticularly refer to this, and to the con-stant Spring of Airyana Vaejo, and the perion

tude. The Zoroastrian sacred books par-ticularly refer to this, and to the con-stant Spring of Airyana Vaejo, and the Parsee Vendidad confirms what has been enunciated, likewise the Dendera Zodiae of the ancient Egyptians. Finally, it is maintained that La Place did not adequately prove that the in-elination of the equator to the ecliptic is always practically the same; and we say, that the inclination of the poles to the plane of the orbit increases and decreases through long cycles or ages, and that there was a time when the altitude of the pole could have been measured from Delta Ceti. For Polaris and Sigma Oc-tantis will not always be pole stars, and "there are more things in heaven and earth than are dreamt of in our phil-osophy." Of course, in some circles we shall be deemed a "heretic" and a fit sub-ject for electrocution with Baracchi of shall be deemed a "heretic " and a fit sub-ject for electrocution with Haracchi of Melbourne, Lord High Executioner, Hunt his assistant, and the "gentle Rates" mia-istering spiritual comfort. But let either of them prove that our dieta are wrong.



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