RACERS ON THE SEA

THE COMING CONTEST BETWEEN AMERICAN AND ENGLISH MODELS. The "Tankee Skimming Dish" and

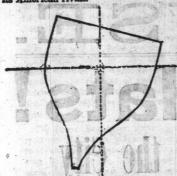
New York, June 22.—The yacht contests of this season promise to excel anything the world has beretofore seen in the way of aquatic races. Beside the stake of national pride which is involved—all Europe eager to have the America's cup, which is the mark of superiority, captured and returned to the old world, and America exerting itself to defend it—there is the question of superiority of models to be decided in the coming races. This is the class we want to superiority is the class of the subject its interna-This it is that gives the subject its interna In the matter of yacht building we have fortunately not copied the English model, as we have too often in other sports. We have a type of our own, a distinctive American yacht, which we claim to be the very best outdoors, and this is the question to be determined this season.

determined this season.

In this article some of the chief differences in the American and English type of yachts will be shown. The diagrams are taken in every instance from the construction drawings of the designers.



As the resistance which a body will meet when pushed through the water depends on the area of its widest and deepest portion, a comparison of the submerged area of the largest transverse section of each yacht is of great value. This is plainly shown in about comparison of the submerged area of the largest transverse section of each yacht is of great value. This is plainly shown in above diagrams. It will be noticed that the area of their sections increase in about the following order: The Priscilla, Puritan, Mayflower, Atlantic and Galatea, which means that, other things being equal, the Priscilla offers least resistance to the water and the Galatea the greatest. Of course, this comparison would be of little service were the yachts of very great difference in length, but fortunately these five fleet vessels that are to compete for superiority this season are nearly the same length, the Puritan, Priscilla and Atlantic being 35 feet in length, while the Maylower and the Galatea, the British yacht, are 100 feet long. The chief difference in the English and American models is shown in the narrowness and great depth of the Galatea's section, compared with the broader and shallower section of its American rivals.



The Galatea could not stand upright in water without ballast, and on this ballast, in the shape of a great cargo of lead bolted under the keel, does the English or cutter style of yacht depend for its stability or erectness. As a yacht under sail is the greater portion of the time careening more or less, the two diagrams herewith show the relative merits of both models under like circumstances. The horizontal dotted line is the water line, the vertical line we may assume as the canter of gravity. It will be CATATEA ON HER BEAM equently of buoyancy is on the wrong of the center of gravity, and but for ead keel she would topple over.



THE MAYFLOWER ON HER BEAM. With an American yacht on her beam, as hown in above section of Mayflower, her shown in above section of Mayflower, her great bilge and her breadth of beam gives her buoyancy or support on the side most submerged. So it may be said that the English cutter depends for stability on her ballast, while the "Yankee skimming dish" attains the same end through greater breadth of beam and buoyancy. The object of this great depth of keel in the English yacht is to prevent leeway, or the sliding of the yacht sideways when the wind blows from the side. This trouble of leeway the American overcomes through the center-board, which is a Yankee invention that



INTERPLEMENT IN STATE ALENGTH IN STATE A



He is the distinguished-looking gentleman in the picture. Besides being a millionaire he is a philanthropist and brilliant author. His book on America, "Tr'amphant Democracy," has attracted much attention on both sides of the ocean. A man with a broad, level head like that can do anything. The boy Andrew in time became a telegraph operator, and he was number one, too. Whatever he went at he worked as hard as he could at it, and devoted his leisure time to learning something else. His



hose home is in Manche greatest living musical prodigy. She is only 9 years of age, and yet when but 5 years old she was not only a musician but a composer also, and the young-est on record. She has al-ready composed and had instrumental pieces: "Cleve

published three instrumental pieces: "Cleve land's March," "Hendrick's Funeral March" published three his and a song, "Let the Angels In," which is remarkable for one of her years. It is claimed that she surpasses Blind Tom, in that the soul, the inspiration of music, is fully developed in her; and besides, she is altogether intelligent, having no peculiarities to distinguish her save her passion for music, which she manifested at the early age of 18 menths. She is one of seven children, two more of whom, like herself, were born blind, and all betraying the same genius for music as Little Maud, though not in the same high degree, A copy of her "Hendrick's Funeral March" was sent to the wildow of the ex-vice-president, who acher "Hendrick's Funeral March" was sent to the widow of the ex-vice-president, who ac-knowledged its receipt in grateful terms. It is a very appropriate production, and does the little genius great credit. She will be 10 years old in October. Her parents are too-poor to give her the benefits of a musical training, or there is no telling what she

The great lung healer is found in the excellent medicine sold as Bickle's Anti-Consumptive Syrup. It soothes and diminishes the sensibility of the membrane of the throat description and is a covereign remedy. the sensitivity of the membrane of the chrost and air passages, and is a sovereign remedy for all coughs, colds, hoarseness, pain or sore-ness in the chest, bronchitis, etc. It has cured many when supposed to be far advanced in

To the Editor of the Scientific American April 17 last was the centenary of Baron P. J. Schilling, the inventor of the electro magnetic telegraph. born in Revel, Russia, 1786.

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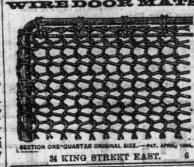
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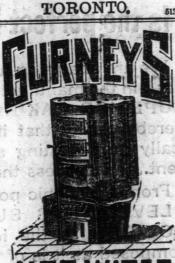
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HOW THE HERO FELL TH OF JUNE TEN YEARS

cture of Sitting Bull, the Gr Chief, Who Defeated Custe Little Big Horn-His Chil the General's Scout. ence the day when brave Gen. C

his band of soldiers were mass Little Big Horn river, in Mo wild Indian region of ten year civilized country now. Flocks graze peacefully where brave The only bit of real wildness country is the National Yello set apart by government as a "p or pleasure ground for the ben people." people."

It is the strangest river in the Yellowstone, down a branch of w

plored for the first time in 18 the surveying party came sud-square mile of hot springs they stop and wonder. The terrific mountains, 8 000 feet deep son further on, with the rapid rithrough the bottom, was still me ful. It was awful. The ravine that in broad daylight person from the bottom can see the s

vania border, it 1839. His ancestry was Pennsylvania German, as far back as the revoluphigmatic Ger-man temperament in the boy George, howe restless and nervous as a educated at West Point.

was put under arrest for ne cadets cease fighting. He which would whip, and was lows fight it out, when sudden lowed to go at once to the where officers were so much Custer was not with them. On fail to suppress a riot or distu the guard tent, and did fail etc., but, on the contrary, did loud tone of voice: Stand bac have a fair fight,' or words to t While awaiting sentence a te from Washington ordering his



eruel, relentless face, It takes many years to make a good Indian out of such a red man a Sitting Bull. He had a huge head, with hair whose color

was brown—very unusual for an Indian. He could neither read nor write, but, strange to say, he kept a journal, which a recent found and scout found and brought into the United States army camp. It contained a history of his grotesque Indian pictures. nted S. B. killing mand on he Little Big Hor 1876. He then fied across dered. Even then he has that he himself did not su



strings of wampum be as bright and attracti