THE MAIL AND ADVOCATE, ST. JOHN'S, NEWFOUNAND, AUGUST 11, 1915-5.



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## WRIGHT DESCRIBES **IDEAL AEROPLANE** Day Near When Machine Will Be Balanced Almost Automatically, He Predicts.

The day is near when the flier will know when he is "stalling" or combe almost entirely relieved of the ing to rest in the air or nearly so. work of maintaining the equilibrium Mr. Wright says the danger from of his machine, and his attention will "stalling" comes when the operator be required only to keep it on its attempts to check the machine's proper course and to bring it safely downward plunge by turning the main in contact with the ground when land- bearing surfaces to still greater ing. This is the prediction of Orville angles of incidence, instead of point-Wright in an article entitled "Stabil- ing the machine downward at a smal ity of Aeroplanes," just written for ler angle of incidence, so that the the Smithsonian Institution. He dis- speed can be recovered more quickly cusses some phases of fore-and-aft Most of the serious accidents in flyequilibrium in flying, and points out ing occur after long glides from conthe danger of "stalling" to the aversiderable heights with the power reage flier. By "stalling" he means duced, when an attempt is made to

bring the machine to a more level course several hundred feet in the air. Mr. Wright says that a flying mach-The machine quickly loses its speed

and becomes "stalled." Those and aft in its line of motion, referred have seen the novice make a "panto as lateral equilibruim; the other cake" landing. Mr. Wright said, have

about an axis extending in a lateral seen the beginning of a case of "stalldirection from tip to tip of the wings, ing," which might have been fatal known as fore-an-aft or longitudinal had it taken place at a height of 100 equilibrium, and a third about a vertior 200 feet in the air.

cal axis, which is generally referred The inventor of the aeroplane adds jae14,m,w,f,eod to as steering, although its most im- that the greatest danger of flying portant function is that of lateral comes from misjuding the angle of equilibrium. Mr. Wright says that incidence. If a uniform angle were although a beginner finds most diffi- ruantained there would be no diffi-MEAT MARKET FO 61220 culty in mastering the fateral con- culty in getting fore-an-aft equilibtrol, it is his lack of knowledge of rium. Experiments made the last certain features of the fore-and-aft year have brought about a considerequilbrium which leads to the most able advance in the development of automatic stability. A device describ-"In an ideal flying machine," Mr. ed by Mr. Wright comprises a small Wright writes, "the centre of gravity horizontal wind vane mounted on the machine so as to ride sidewise to the should lie in the line of the centre of resistance to forward movement, wind when the machine is flying at the desired angle of incidence. In and also in the line of thrust, but in case the machine varies from the depractice this is not always feasible. since the machine must be built to sired angle the air will strike the vane land safely as well as to fly. In fly- on either its upper or lower side. YOU COME OUT Action of Wind Vane. ing a low centre of gravity, that is, The slightest movement of the vane one below the centre of support, of our Meat Market feeling satisin either direction brings into action causes an oscillating movement about fied with yourself, with us and the lateral axis like that of a pendu- a powerful mechanism for operating the controlling surfaces. If the wind lum, which tends to form a disturb-OUR MEAT. ing turning movement. On the other strikes the vane on the under side the elevator is turned to cause the machhand, a high centre of gravity tends You find we carry a large stock to cause the machine to roll over in ine to point downward in front until f the best meats and can offer the normal angle is restored, and if landing, and, consequently, a comyou the choicest cuts, courteous the air strikes the vane from above service and prompt delivery. an opposite action of the elevator is produced. Try patronizing our sanitary "The two principal methods used in The author maintains that a machpreserving fore-and-aft equilibrium ine controlled by regulating its angle market. have been the shifting weights so as M. CONNOLLY, with reference to the impinging air is to keep the centre of gravity in line not liable to one of the dangers of Phone 420. Duckworth St. with the changing centre of lift, and "stalling." He describes another

method for maintaining fore-and-aft

equilibrium. This utilizes the force

tube of mercury. Another method em-

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**Beluchis Fine Fighters** 

London, July 28 .- The award of a ploys the gyroscopic force of a rapidly Victoria Cross to Jemadar Mir Dast of Coke's Rifles, an Indian force, for great gallantry at Ypres, has drawn attention to the picturesque Indian horizontal, or some other determined plane, instead of the angle of the imfrontier detachments now serving in pinging air. He finds that other France.

> Among the oldest and most celebrated of these is Jacob's Rifles. It is named in honor of a fine, but no little remembered soldier, John Jacob, who was a sort of prototype of Lord Roberts. Coke's Rifles are recruited from the warlike Beluchis, and there is special appropriateness in their serving in France, for a French traveler drew attention to their qualities long before the first Beluchi was recruited for the British army.

This traveler was Ferrier, the author of "Caravan Journeys," who was among the first Europeans to penetrate into the mysterious lands of Central Asia. In the course of his book he wrote, seventy-five years ago:

"The Beluchis call themselves Mussulmans, but they do not observe the precepts of the Koran. They are ardent, impulsive, well built and energetic. Their compexion is olive, like that of the Arab, and these two nations have more than one analogous point between them. Their features express astuteness and ferocity, they are insensible to privations, and endure them and fatigue in the most



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