

**ELECTRICAL DENTAL AUTO FOR UPTON SOLDIERS.**

There's nothing like having a "pull"—especially if you happen to be one of Camp Upton's sons. Just think of the pleasure of sitting down in this elaborately equip'd dental palace—why we'll bet the D. D. S. hates to leave it at night. Believe the "Doc," when he says—"We send them away with a smile!"

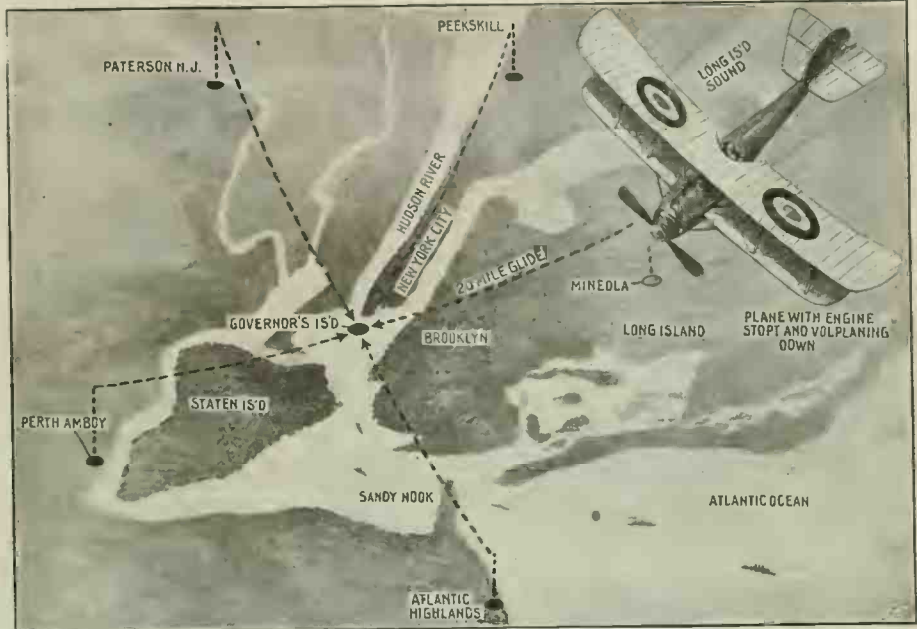
In examining Upton's portable dental car we note that electricity is used to almost the same extent in this portable office as it is used in the private practise of the modern dentist. Altho Camp Upton has an elaborate dental equipment, with twenty-two chairs at the Dental Infirmary, five more for the Depot Brigade, and three at the Base Hospital, and a staff of Assistant Dental Surgeons, there is still need for the dental ambulance, for among the thousands of soldiers who pass thru the cantonment, there are many who for various reasons cannot come to any one of the three permanent offices. With its complete equipment, no case is too severe to be treated, a fact which is admirably borne out by the records of the office. As many as a hundred patients have been treated in a day, the work including everything from preliminary examination to the relief of aching molars or the filling of cavities.

The dental chair, which we here see so well "filled" with a 180 pound Upton patient, with its fountain cuspidor is exactly similar to the chairs found in any well-appointed office. Conveniently located on one side is the familiar bracket table for instruments, while in front of the chair are the electric motor and extension arm of the all important and nerve twiddling drill. The foot control is on the

**New British 'Plane Can Coast 20 Miles to Safety**

In a recent report from an aviation camp behind the British lines in France comes the news that while the absolutely foolproof airplane has possibly not yet been invented, in the opinion of American pilots who are

cept for slight damages which may follow a landing. They are so balanced and the wings so arranged that when the engine stops they glide gradually and easily to earth, without the pilot's attention.



The One Great Problem Confronting the Flying World Has Always Been—"How Far Can I Glide or Coast, if My Engine Should Stop?" The Answer Is—Twenty Miles; that is, if You Have One of These Newest British 'Planes, One of Which Has Gilded That Distance in an Actual Test.

working in a British airdrome the newest British machines have very nearly solved the problem.

Left to themselves these latest machines will make their way safely to earth, ex-

floor behind the chair. Overhead are two incandescent lamps in special reflectors, which assure adequate and well-directed illumination. Even a motor-driven lathe is on hand.

The electric equipment operates at six volts, current being provided by a three-cell storage battery. This battery provides sufficient energy to operate the entire electric equipment for a two weeks' period. It is the only source of electric energy in the outfit, for the auto-engine is not fitted with a dynamo. A rectifier enables the battery to be charged from any lamp socket, however. Also this permits current to be taken direct from the lighting mains when the battery is low.—Photo courtesy New York Edison Co.

The following test shows how remarkably stable these airplanes are: A pilot climbed to a sufficient height, stopt his engine and took his hands off the controls, merely keeping his feet on the rudder bar.

He steered for an airdrome twenty miles away and, except for keeping it straight, he let the airplane do what it liked. It traveled the whole twenty miles as steadily as a bicycle coasting down a long, straight and gentle hill.

The accompanying illustration shows just what such a performance means to the aviator, who has heretofore always been in danger of being forced to volplane down at a sharp angle as soon as the engine stopt. Thus the aviator had to make a landing while coming down at a fairly sharp angle, and in some cases the plane has practically "dropt out of the sky," killing the aviator and demolishing the machine.

Just think what it will mean to the birdmen when they can volplane down a distance of twenty miles, such as from Mineola, L. I., to Governor's Island, or vice versa. It's really a wonder our flying machine inventors have not perfected such a device before this, when we stop to think of the many military aviators who have had their engines stall when over the German lines, which invariably meant they had to descend in enemy territory, with subsequent capture. The cities and towns shown about New York City in the accompanying view are all situated approximately 20 miles distant.

Electrical apparatus taking current from a light socket has been invented by a French scientist to purify the air in a room by literally pumping it into a reservoir and washing it.



The Camp Upton Boys All had a Real Pull with the Dental "Docs," for Electricity Provided Every Convenience Necessary for Pulling and Filling Aching Molars "Painlessly."