

46th IAA HISTORY OF ASTRONAUTICS SYMPOSIUM (E4)
Memoirs and Organisational Histories (1)

Author: Mr. Alvaro Mejía
Institute of Aerospace Historical Studies, Peru, alvaromejia@hotmail.com

Mr. Luis Rojas
Peru, luismrojas2001@yahoo.com

THE PEDRO PAULET'S LIQUID PROPELLANT ROCKET ENGINE INVENTION: FIRST STEP IN
THE SPACE ROCKETRY

Abstract

This document describes the first liquid propellant rocket engine that operated in the Earth, invented by Peruvian chemical engineer Pedro Paulet (1874-1945) by the end of XIXth Century. It describes and analyzes the process through Pedro Paulet, using the explosives' science and technology knowledge; fuse it creatively with those of the explosion motors' science and technology to invent the first liquid propellant rocket engine of the History. It is demonstrated that the conceptual way followed by Pedro Paulet for the invention of the liquid propellants rocket engine was original and totally different from the conceptual way followed by the astronautics' fathers, Tsiolkovski and Oberth, who proposed the use of liquid propellant rockets for the space exploration, and Robert Goddard, the creator of the first liquid propellant rocket that flew.