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#			Title	Publication number	Publ. date	Applicant/Assignee		
1.			Novel atwood experimental instrument	CN105654817	2016-06-08	CHANGSHU INSTITUTE OF TECHNOLOGY		

The invention provides a novel Atwood experimental instrument and belongs to the technical field of physical instruments. The novel Atwood experimental instrument comprises a base plate, a fixed pulley assembly, a light rope, a first object block, a second object block, a first counterweight mechanism, a second counterweight mechanism, a third counterweight mechanism and a fourth counterweight mechanism, wherein the first counterweight mechanism comprises a first counterweight adjusting unit and a first bar-shaped counterweight, and the first counterweight adjusting unit controls the first bar-shaped counterweight and enables the first bar-shaped counterweight to be embedded in a first lower counterweight accommodating groove of the first object block or to be separated from the first lower counterweight accommodating groove; the second counterweight mechanism comprises a second counterweight adjusting unit and a second bar-shaped counterweight, and the second counterweight adjusting unit controls the second bar-shaped counterweight and enables the second bar-shaped counterweight to be embedded in a first upper counterweight accommodating groove of the first object block; and the third counterweight mechanism comprises a third counterweight adjusting unit and a third bar-shaped counterweight, and the third counterweight adjusting unit controls the third bar-shaped counterweight and enables the third bar-shaped counterweight to be embedded in a second lower counterweight accommodating groove of the second object block or to be separated from the second lower counterweight accommodating groove. The novel Atwood experimental instrument solves the problem that an existing Atwood instrument can only research the pure uniformly accelerated rectilinear motion problems with a zero initial speed, and is capable of completing variable rectilinear motion.

