

PHYSICAL PROPERTY, RECORD

<u>ITEM</u>	<u>STATUS / USE</u>	<u>PATENT</u>	<u>FUNDS</u>	<u>DISPOSITION</u>
✓ <u>Body Mass Meas. Device</u>	Flight / SL2,3,4, SLS-1	W.T. 3,555,886	USAF, NASA	Taken by L.S.-SE, and Contractor A
Small Mass Meas. Device	Flight / SL2,3,4, SLS-1 refurb.	W.T. 3,555,886	USAF, NASA	Taken by L.S.-SE, and Contractor A who redesigned electronics, etc., used original hardware.
Micro Mass Meas. Device	Prototype - Successful 1g demonstration	W.T. 3,555,886	USAF	Taken by L.S.-SE, destroyed. Contractor A used concepts.
✓ <u>Apollo Cycle Ergometer</u>	Prototype - Successful 1g demonstration	-----	Pvt.	L.S. spent >\$10 ⁶ with an unsuccessful contractor effort--Rqmt. dropped after successful W.T. demonstration.
✓ <u>Kinesimetric System</u>	Prototype - Successful demonstration	W.T. 4,375,674	MSD	Taken by L.S., given to Contractor A for use in follow-on. Several \$M spent without usable product.
✓ <u>Improved Lower Body Negative Pressure</u>	Prototype - 1g demo.	W.T. 4,421,109	Director's Discretionary	Taken by L.S.-SD and Contractor B-- Features incorporated into Contractor B system.
✓ <u>STS Treadmill</u>	Prototype - Flight STS-4 thru current	-----	FOD?	Taken by L.S.-SD and Contractor B, grossly abused, misused, e.g. STS-44
✓ <u>Improved Waste Collection System</u>	Prototypes - Successful demo flight, STS-35	W.T. (joint) 4,870,709 9,005,457 4,942,632	SPO	Taken by Crew Systems--\$24 million contract for competing system using some features in process since 1985 without usable product to date.
✓ <u>Limb Volume Measuring System</u>	Flight / STS-4 thru 51-D, SLS-1	-----	HQ NASA to SD for specific support of W.T. DSO's	Taken by L.S.-SD
✓ <u>Complex ensemble of instruments for inflight studies, including amplifiers, recorders, gyros, goniometers, etc.</u>	Flight / STS-5 thru 51-D	-----		Taken by L.S.-SD--formed basis of establishment of SBRI / Contractor B DSO lab--then destroyed by Contractor B.

Flight Payloads

L.S. = Life Science, W.T. = William Thornton, Contractor B = SD Support Contractor

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✓ Ambulatory Locomotor Monitoring System, including force measuring treadmill--3 recording sys., 2 computers, recorders, etc.	Used in 1 Bed Rest study--further support refused.	W.T. 4,830,021*	\$70K from L.S. and commercial contribution ~\$180K at my behest	Taken by L.S. -SD Contractor B disappeared without record except few worthless pieces and the treadmill.
μG vibration Isolation Tethers	Prototype - Successful demo	W.T. appli- cations	S.S.	Given to Contractor A who successfully demonstrated methodology. Multi-million dollar efforts using concept in work by contractors.

L.S. = Life Science, W.T. = Willian Thornton, * = Personal with NASA rights

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Contractor B = SD Support Contractor