



NEW TECHNOLOGY DATA SHEET

NASA CASE NO.
JPL CASE NO. 3391

1. SUBMITTED BY NAME(S) AND SOCIAL SECURITY NO.(S)						
(FIRST)	(INITIAL)	(LAST)	SECTION	EXT.	SUPERVISOR	RESIDENCE AND MAILING ADDRESS
(1) Adrian	J.	Hooke	364	7009	T. Gottlieb	Jet Propulsion Laboratory Pasadena, Calif. Mail Stop 114-122
S.S. NO.						
(2) Edward		Greenberg	364	7257		
S.S. NO.						
(3)						
S.S. NO.						
(4)						
S.S. NO.						

2. TITLE
A SPACECRAFT BLOCK TELEMETRY SYSTEM COMPATIBLE WITH GROUND TRANSMISSION CIRCUITS.

3. NOVEL FEATURES
A system of telemetry formatting is proposed whereby spacecraft data are assembled into fixed-length, self-consistent blocks. Each block contains synchronization, a spacecraft measurement time reference, and a set of data associated with one source only. Formats are constructed by transmitting blocks from various sources serially. The block length is chosen to fit into the data content of a NASCOM ground block. Autonomous end-to-end block transmission is achieved which may significantly reduce ground processing complexity and cost.

4. HISTORICAL DATA	DATE	LOCATION	5. NAMES OF PERSONS ACQUAINTED WITH ITEMS 4 THRU 7
a. CONCEPTION BY INVENTOR	January 73	JPL	
b. DISCLOSURE TO OTHERS	April 73	JPL	
c. FIRST SKETCH OR DRAWING	N/A		
d. FIRST WRITTEN DESCRIPTION	May 73	JPL	
e. COMPLETION OF MODEL OR FULL-SIZED DEVICE	N/A		
f. FIRST TEST OR OPERATION OF INVENTION	N/A		

T. Gottlieb, 114-122
W. Whitney, 198-229
J. Scull, 198-226

6. RESULTS OF TEST
N/A

7. APPLICATIONS (INDUSTRIAL, GOVERNMENTAL, OTHERS)
Achieves a simple end-to-end system design for any-remote telemetering system.

8. REFERENCE REPORTS, PUBLICATIONS AND DRAWINGS
IOM's 3645-73-104, 3645-74-106, 3645-74-223.

9. JPL CHARGE NO. UNDER WHICH THIS INNOVATION WAS DEVELOPED
555-22633-0-3640

10. TECHNOLOGY UTILIZATION STAFF MEMBER	SIGNATURES		DATE REPORTED
		INVENTORS	
APPROVED: TECHNOLOGY UTILIZATION MANAGER	(1)	<i>Adrian Hooke</i>	12-5-74
	(2)	<i>Edward Greenberg</i>	12-5-74
	(3)		
	(4)		

*TO BE CONSIDERED AS A CO-INVENTOR ONE MUST HAVE CONTRIBUTED NEW AND NOVEL MATERIAL