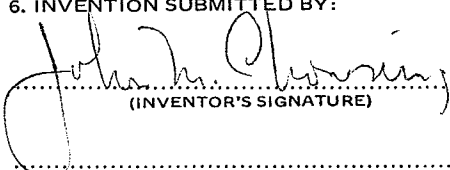
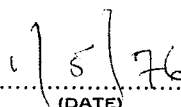


• Please type or print • Read other side first	STANFORD UNIVERSITY INVENTION DISCLOSURE	LEAVE BLANK	S.U. CASE NO. S75-49 OTHER REFERENCES
1. TITLE OF INVENTION SOFTWARE FOR SYSTEMS CONCEPTS DIGITAL SYNTHESIZER			
2. INVENTOR(S) John M. Chowning		POSITION Adjunct Professor	DEPARTMENT Music
3. CONTRACT OR GRANT NO. 2 EMZ 401		SPONSOR NSF	PRINCIPAL INVESTIGATOR Chowning Smith
4. EVENTS	*SEE INSTRUCTIONS ON BACK	DATE	LOCATION
REFERENCES & COMMENTS [USE SEPARATE SHEET IF NECESSARY]			
A. Initial idea		9/1/75	STANFORD
B. First description of complete invention, oral or written (conception)*		9/1/75	STANFORD
C. Invention development records, notes, drawings (evidence of diligence)*			
D. First successful demonstration, if any (first actual reduction to practice)*			
E. First publication containing full description of invention (establishment of publication bar)*			
F. External oral disclosures			
5. DESCRIPTION OF INVENTION (IDENTIFY, DATE AND LIST ATTACHMENTS DESCRIBING INVENTION) Computer software for Digital Synthesis to include: a symbolic music language processor, a symbolic music language debugging package, a run-time system with real-time interactive capability, a time-sharing interface routine for non-real-time applications, and programs for analysis and re-synthesis of natural sounds with graphical editing features for timbre modification, for use on the Systems Concept Digital Synthesizer with PDP-10 interface.			
6. INVENTION SUBMITTED BY:		Invention disclosed to and understood by:	
 (INVENTOR'S SIGNATURE)		 (SIGNATURE OF P.I. OR WITNESS)	
9/5/76 (DATE)		(DATE)	
(CO-INVENTOR'S SIGNATURE)		(CO-INVENTOR'S SIGNATURE)	
(DATE)		(DATE)	
(CO-INVENTOR'S SIGNATURE)		(CO-INVENTOR'S SIGNATURE)	
(DATE)		(DATE)	

INSTRUCTIONS

The purpose of this Invention Disclosure is to record *what was invented* and the *circumstances* under which the invention was made. It provides the basis for a determination of patentability and the data for drafting a patent application. It is a legally important document which should be read carefully before completing.

An Invention Disclosure should be made when something new and useful has been conceived or developed, or when unusual, unexpected or unobvious research results have been achieved and can be utilized.

The following instructions apply to the correspondingly numbered sections on the reverse side:

1. Use a brief title, sufficiently descriptive to aid in identifying the invention.
2. Include the names of any co-inventors. A co-inventor is an individual who has conceived an essential element of the invention, either independently or jointly with others, during the evolution of the invention concept.
3. Give the full applicable contract or grant number(s) if the invention was made in connection with any sponsored research. Specify one sponsor only, unless major support was provided by others.
4. In recording the history of the invention, give particular attention to the legally important events of *conception* (4B), *diligence* (4C), the *first actual reduction to practice* (4D), and the establishment of a *publication bar* (4E). (In the United States a patent application must be filed no later than one year after publication describing the associated invention. In most other countries filing must take place before publication.)
5. In describing the invention, attach material which covers the following points:
 - a. General purpose of invention
 - b. Technical description of invention
 - c. Advantages and improvements over existing methods, devices or materials
 - d. Possible variations and modifications
 - e. Features believed to be new
 - f. Close or related patents (if known)
6. Arrange for signing by the Principal Investigator for the applicable grant or contract or by a witness who has read and understood the invention disclosure.

Note: An Invention Disclosure must be prepared and submitted for each invention *conceived or first actually reduced to practice* under a University contract or grant with patent terms.

————— FOR FURTHER INFORMATION SEE UNIVERSITY GUIDE MEMO 75 —————

GENERAL INFORMATION

An invention is a novel and useful idea relating to processes, machines, manufactures and compositions of matter. It may cover such things as new or improved devices, circuits, systems, chemical compounds, drugs, etc.

To be patentable the invention must not be obvious to a worker with average skills in that particular technology. In addition, it must not have been used by others in this country, or patented or described in a printed publication anywhere, prior to the date of conception.

<div>Please type or print</div> <div>Read other side first</div>		STANFORD UNIVERSITY		<div>LEAVE BLANK</div>		S.U. CASE NO. 575-49	
INVENTION DISCLOSURE				OTHER REFERENCES			
1. TITLE OF INVENTION Software for Systems Concepts Digital Synthesizer							
2. INVENTOR(S) John W. Chowning		POSITION Adjunct Prof.		DEPARTMENT Music			
3. CONTRACT OR GRANT NO. 2 EWMZ 401		SPONSOR NSF		PRINCIPAL INVESTIGATOR Chowning Smith			
4. EVENTS		*SEE INSTRUCTIONS ON BACK	DATE	LOCATION	REFERENCES & COMMENTS [USE SEPARATE SHEET IF NECESSARY]		
A. Initial idea			9.1.75	STANFORD			
B. First description of complete invention, oral or written (conception)*			9.1.75	"			
C. Invention development records, notes, drawings (evidence of diligence)*							
D. First successful demonstration, if any (first actual reduction to practice)*							
E. First publication containing full description of invention (establishment of publication bar)*							
F. External oral disclosures							
5. DESCRIPTION OF INVENTION (IDENTIFY, DATE AND LIST ATTACHMENTS DESCRIBING INVENTION)							
<div>7/16</div>							
6. INVENTION SUBMITTED BY:				Invention disclosed to and understood by:			
John W. Chowning		1.5.76					
(INVENTOR'S SIGNATURE)		(DATE)		(SIGNATURE OF P.I. OR WITNESS)			
				(DATE)			
(CO-INVENTOR'S SIGNATURE)		(DATE)		(LEAVE BLANK)			
(CO-INVENTOR'S SIGNATURE)		(DATE)					

MTG: J. Chowning / Duck Highfield

J.C. → no big deal
"nothing to protect"
max sales → 10 units

2/3 R/S to Music OK

Oct 77 end date → end of NSF \$

need disclosure

(need assignment from RC

Spec. to Sup Con -

; all w.r.t. the cert
big synth pop ^{from} 93 Con

8/31/76

Re Discussion w/ Clive -

This "invention" is not reportable -
as computer programs are considered
as "right in data" (includes copyrights)
& not patentable.

We agreed, however, that if the
option is exercised it would be
product to include language
whereby SA foregoes royalties on
any gov't sales.

JPO

Peter Simon 1/16

Oct '77 → NSF

negot per. → 60 days

3 yrs

OK

R. Moog → paper
N.Y.C. John F.M. Technique
Re: John F.M. Technique
Acoust. Soc. of Amer.

3:00
12/30

Channing x74971

{ This Disc. describing the
10/5 airt → 2 1/2 → same Dept

Rights —

to distr. — w/ their sys. only?
— or to all ...?

15% on net sales price

or 8 — whichever is >

up 2.?? "any other" ✓

Date of option?

NSF # for sure

9th excl.?

just may be
some things
to compare to

4 1/2 m. from receipt (6 mos)

002265

TO Niels Reimers MAIL STOP NO. Encina 246
 FROM Dick Highfield MAIL STOP NO. Procurement Services
 SUBJECT Attached revised proposal by Systems Concepts

STANFORD UNIVERSITY
☐ PLEASE REPLY
☒ SEE ME 1975
 BY TECHNOLOGY LICENSING

MESSAGE

① This revised proposal softens Systems' Concepts requirement for exclusive distribution rights to the digital synthesizer software developed by Prof. Channing & his associates and makes an offer of royalty should an exclusive license be granted. Would this sort of arrangement be agreeable to you and to NSF?

② Has it been determined that a formal license agreement should be drawn up with Systems Concepts regardless of whether the license is exclusive or non-exclusive?

SIGNED

Dick

DATE

12/19/75

REPLY