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1. Location
2. Profession
3. Noun
4. Noun
5. Year
6. Noun
7. Noun
8. Noun
9. Adjective
10. Adjective
11. Noun - Plural
12. Adjective
13. Instrument
14. Adjective
15. Profession
16. Number
17. Noun
18. Verb - Base Form
19. Animal
20. Year
21. Corporation
22. Country
23. Adjective

24. Noun - Plural
25. Field Of Study
26. College Major
27. Patented Invention
28. Noun
29. Corporation
30. Year
31. Year
32. Corporation
33. Noun
34. Us State
35. College Major
36. Field Of Study
37. Full Name Of A Person
38. Country
39. Noun
40. Field Of Study
41. Pop Song
42. Noun - Plural
43. Noun - Plural
44. Verb - Present Ends In Ing
45. Verb - Present Ends In Ing

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John M Chowning (born August 22, 1934 in [Location]) is an American composer, musician, inventor and [profession] best known for his work at Stanford University and his invention of the [Noun] * while there.

Chowning is known for having discovered the [Noun] * algorithm in [Year]. In [Noun] * synthesis, both the carrier frequency and the modulation frequency are within the audio band.

In essence, the [Noun] and [Noun] of one waveform modulates the frequency of another waveform producing a resultant waveform that can be [Adjective] or [Adjective] depending upon the ratio of the two frequencies.

Chowning's breakthrough allowed for simple -in terms of process- yet rich sounding [Noun - Plural] noun], which synthesized 'metal striking' or 'bell like' sound and which seemed incredibly similar to [Adjective]

[instrument]. Chowning was also a [Adjective] [profession]. He spend [Number] years turning his breakthrough into a [Noun] of musical importance and eventually was able to [

Verb - Base Form] a large number of musical sounds, including the singing [Animal]. In [

Year] Stanford University licensed the discovery to [corporation] in [country], with

whom Chowning worked in developing a family of synthesizers and [Adjective] [Noun - Plural]

This patent was Stanford's most lucrative patent at one time eclipsing many in [field of study] of study], [

college major major] and the [patented invention] invention].

The first product to incorporate the [Noun] * algorithm was [corporation] *'s GS1, a ditigal synthesizer

that first shipped in [_____Year____]. Soon after, in [_____Year____], [_____corporation____]* made their first commercially successful digital [_____Noun____]*, the DX7.

Chowning graduated from [US ____US state____] State with a Bachelor of [_____college major____ major] in 1959.

He studied [_____field of study____ of study] composition for three years with [_____Full Name of a Person____] in [_____country____] and received his doctorate from Stanford in 1966. He was the founding director in 1975 of the Center for [_____Noun____] research in [_____field of study____ of study] and acoustics at Stanford University.

One of Chowning's most famous pieces is called [Current ____pop song____ song]. It was commissioned by IRCAM for the Institute's first major concert series called [_____Noun - Plural____ noun] of the 20th century. His composition was noted for its inharmonic [_____Noun - Plural____ noun] and his use of the golden mean in music.

John Chowning currently resides in Palo Alto, CA where he spends his time [_____Verb - Present ends in ING____] and [_____Verb - Present ends in ING____].

Here's to this wonderful man who is full of surprises.