



Hor in late December 1986, after Christmas and before January 4, 1987, which was attended by myself, Pei Hor and Li Gao of the University of Houston, and by M.K. Wu of the University of Alabama, the concept of substitution of Y for La in a composition of La-Ba-Cu-O to produce a composition of Y-Ba-Cu-O which superconducts at a  $T_c$  temperature greater than that of a La-Ba-Cu-O composition was described to M.K. Wu.

4. Before January 17, 1987, I identified in my notebook several substituted compositions for production and examination. Among the compositions so identified is one of the formula  $Y_{1.2}Ba_{0.8}CuO_y$  as shown on Exhibit A attached hereto which is in my handwriting and made by me on a date prior to January 17, 1987. The date entered on Exhibit A has been masked out of the attached copy.

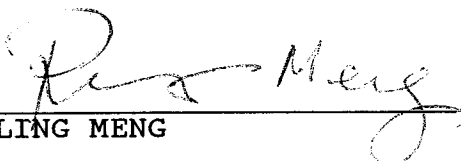
5. Further, on January 29, 1987, I identified further compositions for production and testing in accordance with Dr. Chu's direction to make compositions involving substitution for variously the La or Ba of a La-Ba-Cu-O composition by other small radii atomic elements as shown in Exhibit B attached hereto which was made by me and is in my handwriting. The amounts of reagents required for the production of compositions as shown in Exhibit B are shown in Exhibit C attached hereto, which is in my handwriting and made by me during January 29-30, 1987. Among the compositions considered for production are several formulations of Y-Ba-Cu-O, one of which is specifically of the formula  $Y_{1.2}Ba_{0.8}Cu_1O_y$ .

6. In accordance with my prior calculations as recorded in

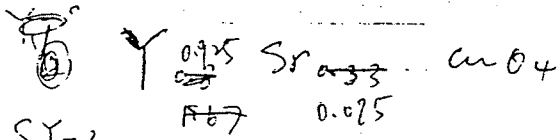
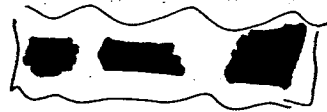
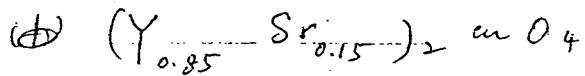
Exhibit C, I began to prepare compositions of Y-Ba-Cu-O one of which, designated as YB-102, was of the formula  $Y_{1.2}Ba_{0.8}Cu_1O_y$  as described in Exhibit C.

7. I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the Chu Application or any patent issued thereon.

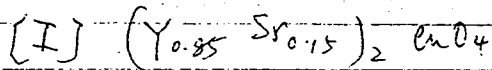
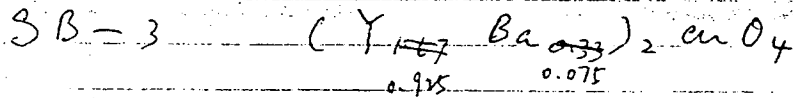
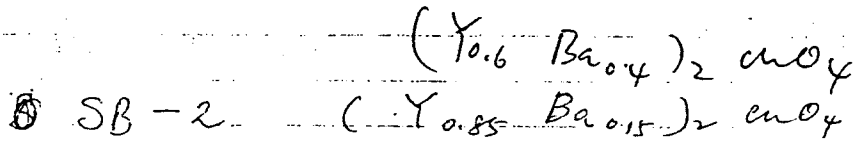
EXECUTED this 4<sup>th</sup> day of December, 1990.

  
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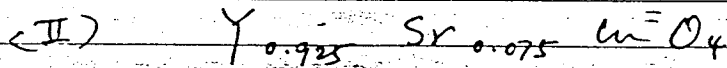
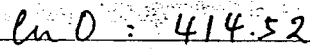
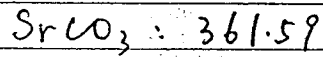
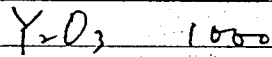
YS-2



SY-3



YS-2	Y	Sr	Ln	O
	47.25	12.88	19.87	0.20



YS-3