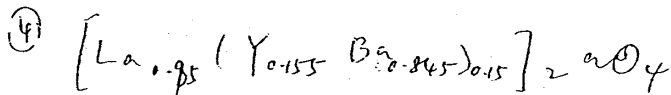
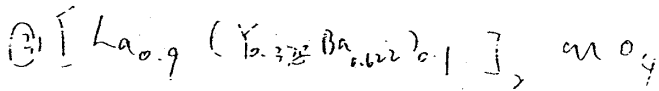
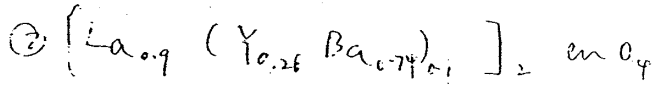
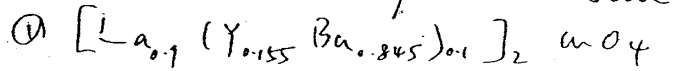
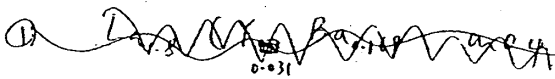


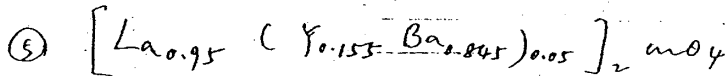
29-30 Jan 1987



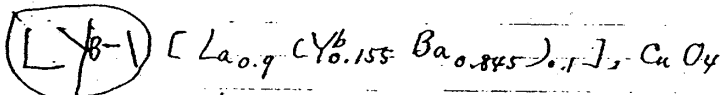
Y_2O_3



$[La_{0.9}]_2$



Y_2O_3
78.74



La	Y	Ba	Cu	O
61.96020	0.683	5.752	15.745	15.889

$La_2O_3 : 1000 mg$

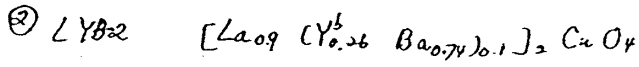
$Y_2O_3 : 11.937 mg$

$BaCO_3 : 113.762 mg$

$CuO : 271.256 mg$

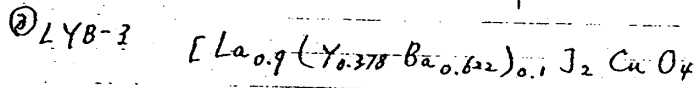
S2 H

CHU EXHIBIT H
WU ET AL V. CHU
INTERFERENCE NO. 102,447



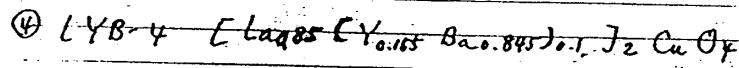
La	Y	Ba	Cu	O
62.117	1.149	5.050	15.785	15.900

La_2O_3 = 2000 mg	1000 mg
Y_2O_3 = 40.062 mg	20.031 mg
$BaCO_3$ = 199.199 mg	99.600 mg
CuO = 542.515 mg	271.258 mg



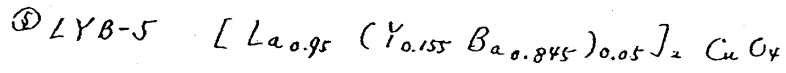
La	Y	Ba	Cu	O
62.294	1.675	4.257	15.830	15.945

La_2O_3 = 1000 mg	2000 mg
Y_2O_3 = 29.118 mg	58.236 mg
$BaCO_3$ = 83.721 mg	167.442 mg
CuO = 542 271.258 mg	542.516 mg



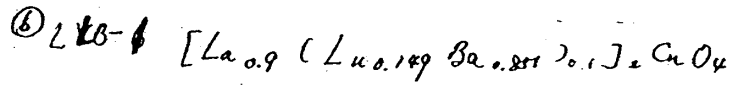
La	Y	Ba	Cu	O
60.604	0.707	5.957	16.307	16.425

La_2O_3 = 2000 mg	1000 mg
Y_2O_3 = 25.266 mg	12.633 mg
$BaCO_3$ = 240.843 mg	120.422 mg
CuO = 574.448 mg	287.224 mg



La	Y	Ba	Cu	O
65.256	0.341	2.869	15.710	15.824

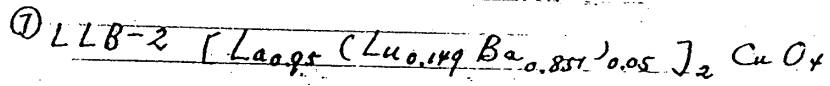
La_2O_3 : 1000 mg	2000 mg
Y_2O_3 : 5.659 mg	11.318 mg
$BaCO_3$: 53.863 mg	107.725 mg
CuO : 256.987 mg	513.965 mg



La	Lu	Ba	Cu	O
61.560	1.284	5.755	15.644	15.757

La_2O_3 : 2000 mg	1000 mg
Lu_2O_3 : 40.448 mg	20.224 mg
$BaCO_3$: 229.062 mg	114.531 mg
CuO : 542.534 mg	271.267 mg

Lu_2O_3
Lu: 87.93%

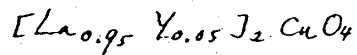


La	Lu	Ba	Cu	O
65.045	0.643	2.880	15.659	15.772

La_2O_3 : 2000 mg
Lu_2O_3 : 19.171 mg
$BaCO_3$: 168.489 mg
CuO : 513.959 mg

H 53

⑧



La	Y	Cu	O
65.923	2.221	15.871	15.986

 $La_2O_3 : 1000 \text{ mg}$
 $Y_2O_3 : 36.484 \text{ mg}$
 $CuO : 256.989 \text{ mg}$

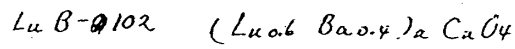
⑨



La	Ba	Cu	O
67.856	0.678	15.876	15.790

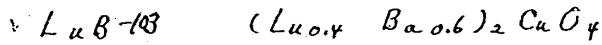
 $La_2O_3 : 1000 \text{ mg} \quad | \quad 2000 \text{ mg}$
 $BaCO_3 : 12.241 \text{ mg} \quad | \quad 24.482 \text{ mg}$
 $CuO : 246.601 \text{ mg} \quad | \quad 493.202 \text{ mg}$

Sinter 7 hours 1100 °C



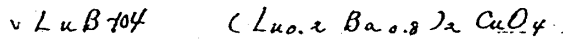
Lu	Ba	Cu	O
46.932	24.559	14.203	14.306

Lu_2O_3 : 1000 mg	300 mg
$BaCO_3$: 661.202 mg	198.361 mg
CuO : 333.141 mg	99.942 mg



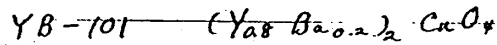
Lu	Ba	Cu	O
32.378	38.121	14.697	14.804

Lu_2O_3 : 1000 mg	300 mg
$BaCO_3$: 1487.670 mg	443.601 mg
CuO : 499.684 mg	149.905 mg



Lu	Ba	Cu	O
16.773	52.662	15.227	15.338

Lu_2O_3 : 3000 mg	
$BaCO_3$: 1190.146 mg	
CuO : 277 299.807 mg	



Y	Ba	Cu	O
43.806	16.918	19.567	19.709

Y_2O_3 : 300 mg	100
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$BaCO_3$: 13109 mg	43.686
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CuO : 132.088 mg	44.029
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H 55

YB-102 (Y_{0.6} Ba_{0.4})₂ Cu O₄

Y	Ba	Cu	O
31.005	31.930	18.466	18.599

Y₂O₃ : 300 mg
 BaCO₃ : 349.555 mg (243.267)
 CuO : 176.122 mg

BaO = 99.88

(BaO = 243.56 mg)

YB-1.

YB-103: (Y_{0.4} Ba_{0.6})₂ Cu O₄

Y	Ba	Cu	O
19.588	45.343	17.481	17.608

Y₂O₃ 1000 mg

BaCO₃: 194.195

Y₂O₃ : 300.00 mg

CuO: 391.381

BaCO₃: 786.525 mg

CuO : 264.176 mg

YB-104: (Y_{0.2} Ba_{0.8})₂ Cu O₄

Y	Ba	Cu	O
9.289	57.397	16.597	16.717

Y₂O₃ : 300.00 mg

BaCO₃: 2097.342 mg

CuO: 528.365 mg

YP-101 (Y_{0.8} Pb_{0.2})₂ Cu O₄

Y	Pb	Cu	O
40.375	27.500	18.017	18.148

Y₂O₃ : 300.00 mg

PbO₂ : 158.888 mg

22 H CuO : 132.091 mg

H 56

YB-105 : $(Y_{0.3} Ba_{0.7})_2 Cu O_4$

Y	Ba	Cu	O
14.295	51.527	17.028	17.151

Y_2O_3 : 300 mg

100

$BaCO_3$: 1223.488 mg

407.829

CuO : 352.252 mg

117.417

Yb _{1.2}	Ba _{0.8}	Cu	O ₄
1.1	0.9		
1.3	0.7		

YbB-102 : $Yb_{1.2} Ba_{0.8} Cu O_4$

Yb	Ba	Cu	O
46.656	24.687	14.277	14.380

Yb_2O_3 : 300 mg

$BaCO_3$: 200.305 mg

CuO : 100.922 mg

YbB-101 : $Yb_{1.1} Ba_{0.9} Cu O_4$

Yb	Ba	Cu	O
43.114	27.997	14.392	14.496

Yb_2O_3 : 300 mg

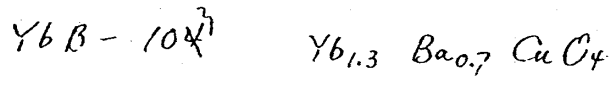
$BaCO_3$: 245.824 mg

CuO : 110.093 mg

83 H:

H

57

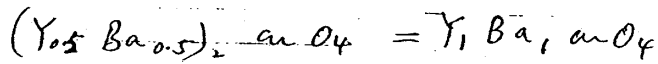
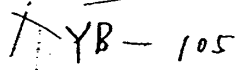


Yb	Ba	Cu	O
50.142	21.429	14.163	14.266

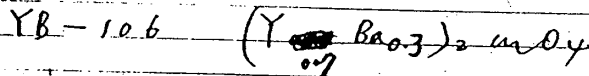
Yb₂O₃ : 300 mg

BaCO₃ : 161.782 mg

CuO : 93.155 mg

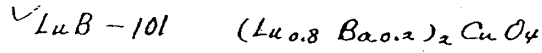


Y	Ba	Cu	O
25.129	38.821	17.959	18.090



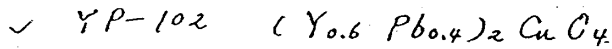
Y 1.4	Ba 0.6	CuO ₄
37.220		
37.220		

Y	Ba	Cu	O
37.220	24.641	19.001	19.138



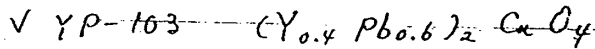
Lu	Ba	Cu	O
60.540	11.880	13.741	13.840

Lu ₂ O ₃ :	1000 mg	300 mg
BaCO ₃ :	247.951 mg	74.385 mg
CuO:	249.870 mg	74.961 mg



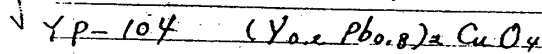
Y	Pb	Cu	O
26.673	41.440	15.886	16.001

Y ₂ O ₃ :	300 mg
PbO ₂ :	423.695 mg
CuO:	176.123 mg



Y	Pb	Cu	O
15.901	55.585	14.205	14.308

Y ₂ O ₃ :	300 mg
PbO ₂ :	953.319 mg
CuO:	264.174 mg



Y	Pb	Cu	O
7.190	67.024	12.847	12.940

Y ₂ O ₃ :	300 mg
PbO ₂ :	2542.181 mg
CuO:	528.380 mg

LuP-101 (Lu_{0.8}Pb_{0.2})₂CuO₄

Lu	Pb	Cu	O
57.090	16.901	12.958	13.051

Lu₂O₃: 300 mg
PbO₂: 90.162 mg
CuO: 74.958 mg

LuP-102 (Lu_{0.6}Pb_{0.4})₂CuO₄

Lu	Pb	Cu	O
41.721	32.936	12.626	12.717

Lu₂O₃: 300 mg
PbO₂: 240.428 mg
CuO: 99.942 mg

LuP-103 (Lu_{0.4}Pb_{0.6})₂CuO₄

Lu	Pb	Cu	O
27.120	48.170	12.311	12.400

Lu₂O₃: 300 mg
PbO₂: 540.949 mg
CuO: 149.914 mg

LuP-104 (Lu_{0.2}Pb_{0.8})₂CuO₄

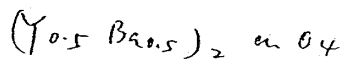
Lu	Pb	Cu	O
13.229	62.662	12.011	12.098

Lu₂O₃: 300 mg
PbO₂: 1442.603 mg
CuO: 299.840 mg

BaCO₃ 67.60
 CuO 79.35
 Y₂O₃ 28.74

* Feb. 1957

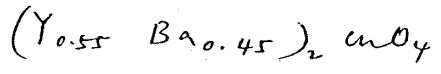
(I) YB 10.6



Y Ba Cu O
 25.129 38.821 17.959 18.092

Y₂O₃ 400 mg
 BaCO₃ 609.12 mg
 CuO 281.786 mg

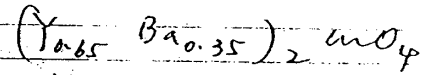
(II) YB 10.7



Y Ba Cu O
 28.026 35.423 18.209 18.342

Y₂O₃ 300 mg
 BaCO₃ : 428.974 mg
 CuO : 172.133

III YB - 10.8



Y	Ba	Cu	O
24.068	22.338	18.229	18.865

Y₂O₃ = 300 mg Y: 236.22
 BaCO₃ = 222.54
 CuO = 162.57

IV YB - 10.9 (YB-105) $(Y_{0.7} Ba_{0.3})_2 mO_4$ H - 61

Y/37.22 Ba/24.691 Cu/19.001 O/19.138
 Y₂O₃: 300 mg BaCO₃ 224.69 CuO: 150.97