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Attorney's Docket No. 033275-002

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Asea Brown Boveri AG

Additional name(s) of conveying party(ies) attached?  Yes  No

3. Nature of conveyance:

Assignment  Merger  
 Security Agreement  Change of Name

Other: \_\_\_\_\_

Execution Date: 11/9/2001

2. Name and address of receiving party(ies):

Name: ALSTOM

Address: 25, avenue Kleber

F-75116 Paris

France

Additional name(s) & address(es) attached?  Yes  No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)

See Appendix A

B. Patent No.(s)

See Appendix A

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Robert S. Swecker

Address: BURNS, DOANE, SWECKER & MATHIS, L.L.P.

P.O. Box 1404

Alexandria, Virginia 22313-1404

6. Total number of applications and patents involved: 355

7. Total fee (37 CFR § 3.41): \$ 14,200.00

Enclosed

Authorized to be charged to deposit account, if necessary

8. Deposit account number:

02-4800

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Robert S. Swecker, #19,885  
Name of Person Signing

Signature

November 26, 2001  
Date

Total number of pages including cover sheet, attachments, and document: 19

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks  
Box Assignments  
Washington, D.C. 20231

11/26/2001 LHWELLER 00000026 09632797

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## APPENDIX A

1. U.S. Pat. Appln. Ser. No. 09/632,797 filed August 4, 2000
2. U.S. Pat. Appln. Ser. No. 09/268,722 filed March 17, 1999
3. U.S. Pat. Appln. Ser. No. 09/360,647 filed July 26, 1999
4. U.S. Pat. Appln. Ser. No. 09/372,829 filed August 12, 1999
5. U.S. Pat. Appln. Ser. No. 09/375,369 filed August 17, 1999
6. U.S. Pat. Appln. Ser. No. 09/397,511 filed September 17, 1999
7. U.S. Pat. Appln. Ser. No. 09/401,309 filed September 23, 1999
8. U.S. Pat. Appln. Ser. No. 09/438,587 filed November 12, 1999
9. U.S. Pat. Appln. Ser. No. 09/405,226 filed September 27, 1999
10. U.S. Pat. Appln. Ser. No. 09/431,178 filed November 1, 1999
11. U.S. Pat. Appln. Ser. No. 09/414,968 filed October 12, 1999
12. U.S. Pat. Appln. Ser. No. 09/431,918 filed November 2, 1999
13. U.S. Pat. Appln. Ser. No. 09/431,176 filed November 1, 1999
14. U.S. Pat. Appln. Ser. No. 09/448,492 filed November 24, 1999
15. U.S. Pat. Appln. Ser. No. 09/450,729 filed November 30, 1999
16. U.S. Pat. Appln. Ser. No. 09/450,727 filed November 30, 1999
17. U.S. Pat. Appln. Ser. No. 09/371,533 filed October 10, 1999
18. U.S. Pat. Appln. Ser. No. 09/371,534 filed October 10, 1999
19. U.S. Pat. Appln. Ser. No. 09/373,719 filed October 13, 1999
20. U.S. Pat. Appln. Ser. No. 09/382,630 filed October 25, 1999
21. U.S. Pat. Appln. Ser. No. 09/638,015 filed October 14, 2000

22. U.S. Pat. Appln. Ser. No. 09/255,712 filed February 23, 1999
23. U.S. Pat. Appln. Ser. No. 09/325,558 filed June 4, 1999
24. U.S. Pat. Appln. Ser. No. 09/079,179 filed May 15, 1998
25. U.S. Pat. Appln. Ser. No. 09/208,441 filed December 10, 1998
26. U.S. Pat. Appln. Ser. No. 09/190,364 filed November 12, 1998
27. U.S. Pat. Appln. Ser. No. 09/213,428 filed December 17, 1998
28. U.S. Pat. Appln. Ser. No. 09/350,886 filed July 12, 1999
29. U.S. Pat. Appln. Ser. No. 09/349,966 filed July 9, 1999
30. U.S. Pat. Appln. Ser. No. 09/565,548 filed May 5, 2000
31. U.S. Pat. Appln. Ser. No. 09/392,791 filed September 9, 1999
32. U.S. Pat. Appln. Ser. No. 09/382,628 filed August 25, 1999
33. U.S. Pat. Appln. Ser. No. 09/650,407 filed August 29, 2000
34. U.S. Patent No. 6,168,380
35. U.S. Patent No. 6,202,399
36. U.S. Patent No. 5,207,982
37. U.S. Patent No. 5,203,286
38. U.S. Patent No. 5,244,380
39. U.S. Patent No. 5,207,569
40. U.S. Patent No. 5,272,738
- ~~41. U.S. Patent No. 5,386,867~~
42. U.S. Patent No. 5,051,061
43. U.S. Patent No. 5,217,199

44. U.S. Patent No. 5,313,782
45. U.S. Patent No. 5,386,685
46. U.S. Patent No. 5,647,200
47. U.S. Patent No. 5,617,713
48. U.S. Patent No. 5,992,906
49. U.S. Patent No. 5,675,881
50. U.S. Patent No. 5,718,867
51. U.S. Patent No. 5,645,410
52. U.S. Patent No. 5,630,702
53. U.S. Patent No. 5,647,202
54. U.S. Patent No. 5,634,327
55. U.S. Patent No. 5,697,209
- ~~56. U.S. Patent No. 5,599,667~~
57. U.S. Patent No. 5,895,211
58. U.S. Patent No. 5,649,369
59. U.S. Patent No. 5,674,066
60. U.S. Patent No. 5,687,571
61. U.S. Patent No. 5,706,644
62. U.S. Patent No. 5,718,512
63. U.S. Patent No. 5,687,657
64. U.S. Patent No. 5,765,366
65. U.S. Patent No. 5,676,511

~~66. U.S. Patent No. 5,693,209~~

67. U.S. Patent No. 5,737,816

68. U.S. Patent No. 5,676,511

69. U.S. Patent No. 5,784,889

70. U.S. Patent No. 5,846,353

71. U.S. Patent No. 5,680,753

72. U.S. Patent No. 5,689,948

73. U.S. Patent No. 5,782,626

74. U.S. Patent No. 5,733,520

75. U.S. Patent No. 5,845,496

76. U.S. Patent No. 5,829,967

77. U.S. Patent No. 5,771,846

78. U.S. Patent No. 5,775,266

79. U.S. Patent No. 5,778,513

80. U.S. Patent No. 5,779,435

81. U.S. Patent No. 5,984,670

82. U.S. Patent No. 6,126,357

83. U.S. Patent No. 6,276,863

84. U.S. Patent No. 5,284,437

85. U.S. Patent No. 5,532,454

86. U.S. Patent No. 5,735,125

87. U.S. Patent No. 5,738,509

88. U.S. Patent No. 5,682,737

89. U.S. Patent No. 5,737,912

90. U.S. Patent No. 5,873,233
91. U.S. Patent No. 5,711,644
92. U.S. Patent No. 5,863,494
93. U.S. Patent No. 5,797,259
94. U.S. Patent No. 5,776,413
95. U.S. Patent No. 5,771,963
96. U.S. Patent No. 5,833,451
97. U.S. Patent No. 5,695,317
98. U.S. Patent No. 5,799,481
99. U.S. Patent No. 5,839,271
100. U.S. Patent No. 5,782,080
101. U.S. Patent No. 5,930,998
102. U.S. Patent No. 5,906,095
103. U.S. Patent No. 5,791,873
104. U.S. Patent No. 5,842,831
105. U.S. Patent No. 5,983,643
106. U.S. Patent No. 5,884,470
107. U.S. Patent No. 5,827,045
108. U.S. Patent No. 5,884,471
109. U.S. Patent No. 5,765,509
110. U.S. Patent No. 5,840,130
111. U.S. Patent No. 6,129,794
112. U.S. Patent No. 6,124,653
113. U.S. Patent No. 6,252,328

114. U.S. Patent No. 6,189,211
115. U.S. Patent No. 6,267,552
116. U.S. Patent No. 6,199,362
117. U.S. Patent No. 6,293,105
118. U.S. Patent No. 6,276,692
119. U.S. Patent No. 6,155,054
120. U.S. Patent No. 6,263,676
121. U.S. Patent No. 6,209,327
122. U.S. Patent No. 6,239,511
123. U.S. Patent No. 6,224,323
124. U.S. Patent No. 6,213,031
125. U.S. Patent No. 6,206,047
126. U.S. Patent No. 6,225,706
127. U.S. Patent No. 6,270,315
128. U.S. Patent No. 6,264,425
129. U.S. Patent No. 6,152,726
130. U.S. Patent No. 6,286,333
131. U.S. Patent No. 6,241,469
132. U.S. Patent No. 6,223,536
133. U.S. Patent No. 6,161,385
134. U.S. Patent No. 6,259,166
135. U.S. Patent No. 6,223,533
136. U.S. Patent No. 6,239,522
137. U.S. Patent No. 6,269,754

138. U.S. Patent No. 6,233,941
139. U.S. Patent No. 6,270,253
140. U.S. Patent No. 6,189,871
141. U.S. Patent No. 6,269,624
142. U.S. Patent No. 6,289,668
143. U.S. Patent No. 6,203,271
144. U.S. Patent No. 6,193,468
145. U.S. Patent No. 6,018,942
146. U.S. Patent No. 6,079,222
147. U.S. Patent No. 5,951,792
148. U.S. Patent No. 6,141,952
149. U.S. Patent No. 6,044,910
150. U.S. Patent No. 5,975,030
151. U.S. Patent No. 6,132,202
152. U.S. Patent No. 6,101,982
153. U.S. Patent No. 5,894,178
154. U.S. Patent No. 5,969,460
155. U.S. Patent No. 6,270,338
156. U.S. Patent No. 5,313,783
157. U.S. Patent No. 6,148,603
158. U.S. Patent No. 6,106,188
159. U.S. Patent No. 6,223,523
160. U.S. Patent No. 6,109,020
161. U.S. Patent No. 6,021,677



162. U.S. Patent No. 6,053,048
163. U.S. Patent No. 6,062,017
164. U.S. Patent No. 6,033,181
165. U.S. Patent No. 6,216,437
166. U.S. Patent No. 6,099,248
167. U.S. Patent No. 6,245,447
168. U.S. Patent No. 6,178,738
169. U.S. Patent No. 6,178,735
170. U.S. Patent No. 6,036,484
171. U.S. Patent No. 5,992,198
172. U.S. Patent No. 5,426,943
173. U.S. Patent No. 6,145,315
174. U.S. Patent No. 5,809,943
175. U.S. Patent No. 5,919,031
176. U.S. Patent No. 5,934,874
177. U.S. Patent No. 6,012,723
178. U.S. Patent No. 5,941,060
179. U.S. Patent No. 5,941,301
180. U.S. Patent No. 5,967,743
181. U.S. Patent No. 6,146,478
182. U.S. Patent No. 5,883,448
183. U.S. Patent No. 5,993,154
184. U.S. Patent No. 5,913,274
185. U.S. Patent No. 5,942,678

- 186. U.S. Patent No. 5,953,919
- 187. U.S. Patent No. 6,038,848
- 188. U.S. Patent No. 6,038,863
- 189. U.S. Patent No. 5,866,960
- 190. U.S. Patent No. 6,128,894
- 191. U.S. Patent No. 5,927,388
- 192. U.S. Patent No. 6,098,406
- 193. U.S. Patent No. 6,046,602
- 194. U.S. Patent No. 6,056,806
- 195. U.S. Patent No. 5,993,155
- 196. U.S. Patent No. 6,230,482
- 197. U.S. Patent No. 6,032,468
- 198. U.S. Patent No. 5,906,178
- 199. U.S. Patent No. 6,167,690
- 200. U.S. Patent No. 6,055,813
- 201. U.S. Patent No. 6,261,053
- ~~202. U.S. Patent No. 6,082,961~~
- 203. U.S. Patent No. 6,102,655
- 204. U.S. Patent No. 5,983,840
- 205. U.S. Patent No. 6,209,310
- 206. U.S. Patent No. 6,211,586
- 207. U.S. Patent No. 6,162,018
- 208. U.S. Patent No. 5,980,240
- 209. U.S. Patent No. 6,121,708

- 210. U.S. Patent No. 6,118,187
- 211. U.S. Patent No. 5,271,216
- 212. U.S. Patent No. 4,973,228
- 213. U.S. Patent No. 5,081,844
- 214. U.S. Patent No. 5,044,935
- 215. U.S. Patent No. 5,101,633
- 216. U.S. Patent No. 5,127,821
- 217. U.S. Patent No. 5,118,283
- 218. U.S. Patent No. 5,154,059
- 219. U.S. Patent No. 5,052,895
- 220. U.S. Patent No. 5,111,662
- 221. U.S. Patent No. 5,147,200
- 222. U.S. Patent No. 5,069,600
- 223. U.S. Patent No. 5,148,668
- 224. U.S. Patent No. 5,180,451
- 225. U.S. Patent No. 5,342,577
- 226. U.S. Patent No. 5,286,443
- 227. U.S. Patent No. 5,165,606
- 228. U.S. Patent No. 5,197,276
- 229. U.S. Patent No. 5,220,781
- 230. U.S. Patent No. 5,282,354
- 231. U.S. Patent No. 5,274,993
- 232. U.S. Patent No. 5,299,353
- 233. U.S. Patent No. 5,290,144

- 234. U.S. Patent No. 5,280,807
- 235. U.S. Patent No. 5,400,587
- 236. U.S. Patent No. 5,303,678
- 237. U.S. Patent No. 5,274,994
- 238. U.S. Patent No. 5,363,642
- 239. U.S. Patent No. 5,395,699
- 240. U.S. Patent No. 5,290,146
- 241. U.S. Patent No. 4,948,333
- 242. U.S. Patent No. 4,979,873
- 243. U.S. Patent No. 5,337,554
- 244. U.S. Patent No. 5,181,559
- 245. U.S. Patent No. 5,249,955
- 246. U.S. Patent No. 5,366,345
- 247. U.S. Patent No. 5,267,282
- 248. U.S. Patent No. 5,238,364
- 249. U.S. Patent No. 5,267,288
- 250. U.S. Patent No. 5,313,785
- 251. U.S. Patent No. 5,361,576
- 252. U.S. Patent No. 5,409,781
- 253. U.S. Patent No. 5,353,589
- 254. U.S. Patent No. 5,338,155
- 255. U.S. Patent No. 5,346,365
- 256. U.S. Patent No. 5,362,204
- 257. U.S. Patent No. 5,482,457

- 258. U.S. Patent No. 5,413,478
- 259. U.S. Patent No. 5,397,216
- 260. U.S. Patent No. 5,388,397
- 261. U.S. Patent No. 5,373,695
- 262. U.S. Patent No. 5,388,412
- 263. U.S. Patent No. 5,381,653
- 264. U.S. Patent No. 5,465,577
- 265. U.S. Patent No. 5,837,019
- 266. U.S. Patent No. 4,967,561
- 267. U.S. Patent No. 4,456,426
- 268. U.S. Patent No. 4,812,107
- 269. U.S. Patent No. 4,648,791
- 270. U.S. Patent No. 4,581,048
- 271. U.S. Patent No. 4,729,217
- 272. U.S. Patent No. 4,551,780
- 273. U.S. Patent No. 4,774,876
- 274. U.S. Patent No. 4,738,585
- 275. U.S. Patent No. 4,624,111
- 276. U.S. Patent No. 4,562,887
- 277. U.S. Patent No. 4,541,366
- 278. U.S. Patent No. 4,559,275
- 279. U.S. Patent No. 4,710,103
- 280. U.S. Patent No. 4,642,025
- 281. U.S. Patent No. 4,699,569

- 282. U.S. Patent No. 4,719,746
- 283. U.S. Patent No. 4,776,170
- 284. U.S. Patent No. 4,802,403
- 285. U.S. Patent No. 4,801,216
- 286. U.S. Patent No. 4,722,668
- 287. U.S. Patent No. 4,850,194
- 288. U.S. Patent No. 4,867,674
- 289. U.S. Patent No. 5,661,967
- 290. U.S. Patent No. 5,682,737
- 291. U.S. Patent No. 5,481,865
- 292. U.S. Patent No. 5,410,869
- 293. U.S. Patent No. 5,374,028
- 294. U.S. Patent No. 5,422,070
- 295. U.S. Patent No. 5,438,821
- 296. U.S. Patent No. 5,577,378
- 297. U.S. Patent No. 5,454,220
- 298. U.S. Patent No. 5,433,596
- 299. U.S. Patent No. 5,423,608
- 300. U.S. Patent No. 5,518,311
- 301. U.S. Patent No. 5,498,155
- 302. U.S. Patent No. 5,658,353
- 303. U.S. Patent No. 5,415,706
- 304. U.S. Patent No. 5,467,683
- 305. U.S. Patent No. 5,531,565

- 306. U.S. Patent No. 5,605,437
- 307. U.S. Patent No. 5,581,994
- 308. U.S. Patent No. 5,522,217
- 309. U.S. Patent No. 5,465,569
- 310. U.S. Patent No. 5,557,919
- 311. U.S. Patent No. 5,651,253
- 312. U.S. Patent No. 5,615,546
- 313. U.S. Patent No. 5,505,588
- 314. U.S. Patent No. 5,411,702
- 315. U.S. Patent No. 5,466,910
- 316. U.S. Patent No. 5,609,019
- 317. U.S. Patent No. 5,493,854
- 318. U.S. Patent No. 5,568,793
- 319. U.S. Patent No. 5,685,705
- 320. U.S. Patent No. 5,532,445
- 321. U.S. Patent No. 5,497,611
- 322. U.S. Patent No. 5,613,356
- 323. U.S. Patent No. 5,525,032
- 324. U.S. Patent No. 5,573,395
- 325. U.S. Patent No. 5,558,515
- 326. U.S. Patent No. 5,557,921
- 327. U.S. Patent No. 5,584,684
- 328. U.S. Patent No. 5,609,017
- 329. U.S. Patent No. 5,593,302

- 330. U.S. Patent No. 5,568,722
- 331. U.S. Patent No. 5,609,018
- 332. U.S. Patent No. 5,701,731
- 333. U.S. Patent No. 5,588,825
- 334. U.S. Patent No. 5,588,824
- 335. U.S. Patent No. 5,609,030
- 336. U.S. Patent No. 5,624,256
- 337. U.S. Patent No. 5,487,659
- 338. U.S. Patent No. 5,603,212
- 339. U.S. Patent No. 5,513,982
- 340. U.S. Patent No. 5,573,604
- 341. U.S. Patent No. 5,575,617
- 342. U.S. Patent No. 5,564,896
- 343. U.S. Patent No. 5,554,005
- 344. U.S. Patent No. 5,495,709
- 345. U.S. Patent No. 5,758,485
- 346. U.S. Patent No. 5,812,588
- 347. U.S. Patent No. 6,199,363
- 348. U.S. Patent No. 4,812,602
- 349. U.S. Patent No. 4,923,035
- 350. U.S. Patent No. 4,927,327
- 351. U.S. Patent No. 4,910,958
- 352. U.S. Patent No. 4,910,958
- 353. U.S. Patent No. 4,598,767



- 354. U.S. Patent No. 5,158,744
- 355. U.S. Patent No. 6,146,478
- 356. U.S. Patent No. 4,967,833
- 357. U.S. Patent No. 5,699,667
- 358. U.S. Patent No. 5,639,209
- 359. U.S. Patent No. 5,386,687

# **ASSIGNMENT**

THIS ASSIGNMENT is effective as of the first day of November, 2000.

WHEREAS, Asea Brown Boveri AG, a Swiss corporation, having its principal place of business at Haselstrasse 16/699, CH-5401 Baden, Switzerland, is the record owner of the United States Letters Patents and pending United States patent applications listed in Appendix A attached; and

WHEREAS, certain assets including the United States Letters Patents and patent applications listed in Appendix A were duly assigned and transferred by the said Asea Brown Boveri AG to ALSTOM, a French limited liability company, having its principal place of business at 25, avenue Kléber, F-75116 Paris, France; and

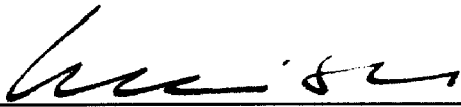
WHEREAS, the parties desire to record this instrument in the United States Patent and Trademark Office attesting to the assignment of said United States Letters Patents and said applications for Letters Patent;

NOW, THEREFORE, for good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, Asea Brown Boveri AG acknowledges that it has assigned and transferred, nunc pro tunc as of November 1, 2000, to ALSTOM the entire right, title and interest in and to the said patents and patent applications, including any

reissues, reexamined patents, continuations and divisions of said patents and patent applications, said patents and patent applications to be held and enjoyed by ALSTOM for its own use and for the use of its legal representatives, successors and assigns, to the full end of the terms for which the said patent and patent applications are granted, as fully and entirely as the same would have been held by Asea Brown Boveri AG had this assignment not been made, together with all claims for past infringement of said patents and patent applications and with the right to sue for and to collect damages for such infringement.

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Date 09-11-2001



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Name: Beat Weibel  
Title: General Manager  
Company: Asea Brown Boveri AG  
new: ABB (Schweiz) AG