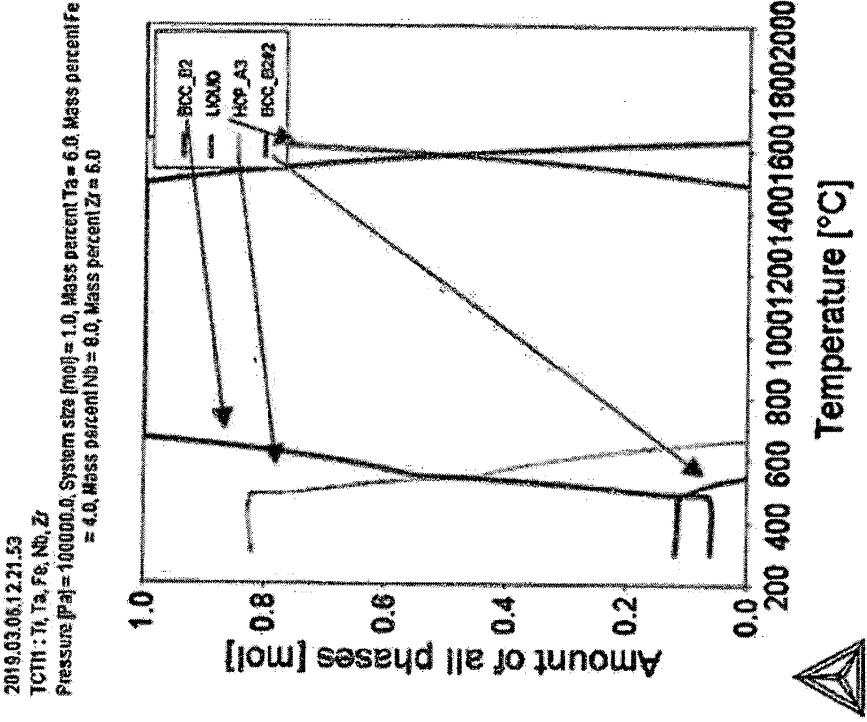


**ANY REFERENCE TO FIGURES 1B, 2B, 3B AND 4B SHALL BE
CONSIDERED NON-EXISTENT**

Figure 1: TTFNZ Ti-6Ta-8Nb-4Fe-6Zr (Thermodynamic equilibrium)



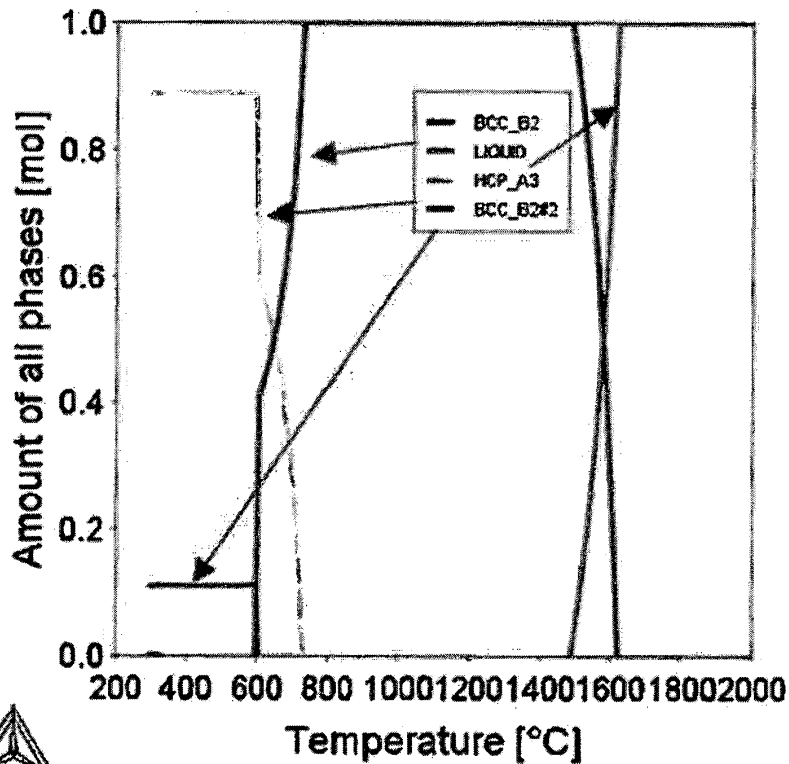
INCORPORATED BY REFERENCE (RULE 20.6)
SUBSTITUTE SHEET (RULE 26)

Figure 2: TTFS (Thermodynamic equilibrium)

2019.03.06.12.37.48

TCTH : Ti, Sn, Ta, Fe

Pressure [Pa] = 100000.0, System size [mol] = 1.0, Mass percent Sn = 3.0, Mass percent Ta = 7.0, Mass percent Fe = 5.0



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Figure 3: Microstructure of TTFNZ after NADFAM/AM conditions

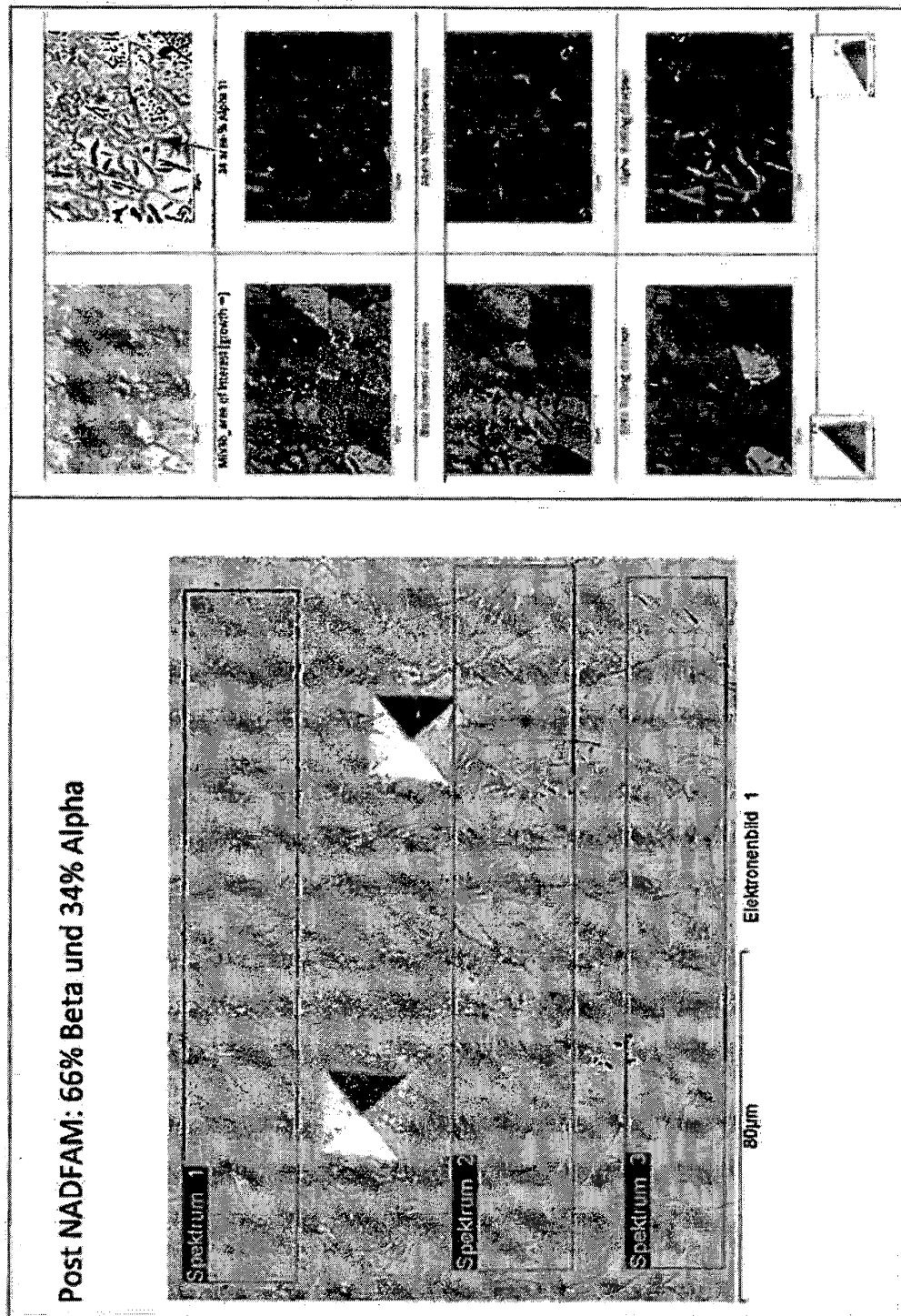


Figure 4: Microstructure of TTFS after NADFAM/AM conditions

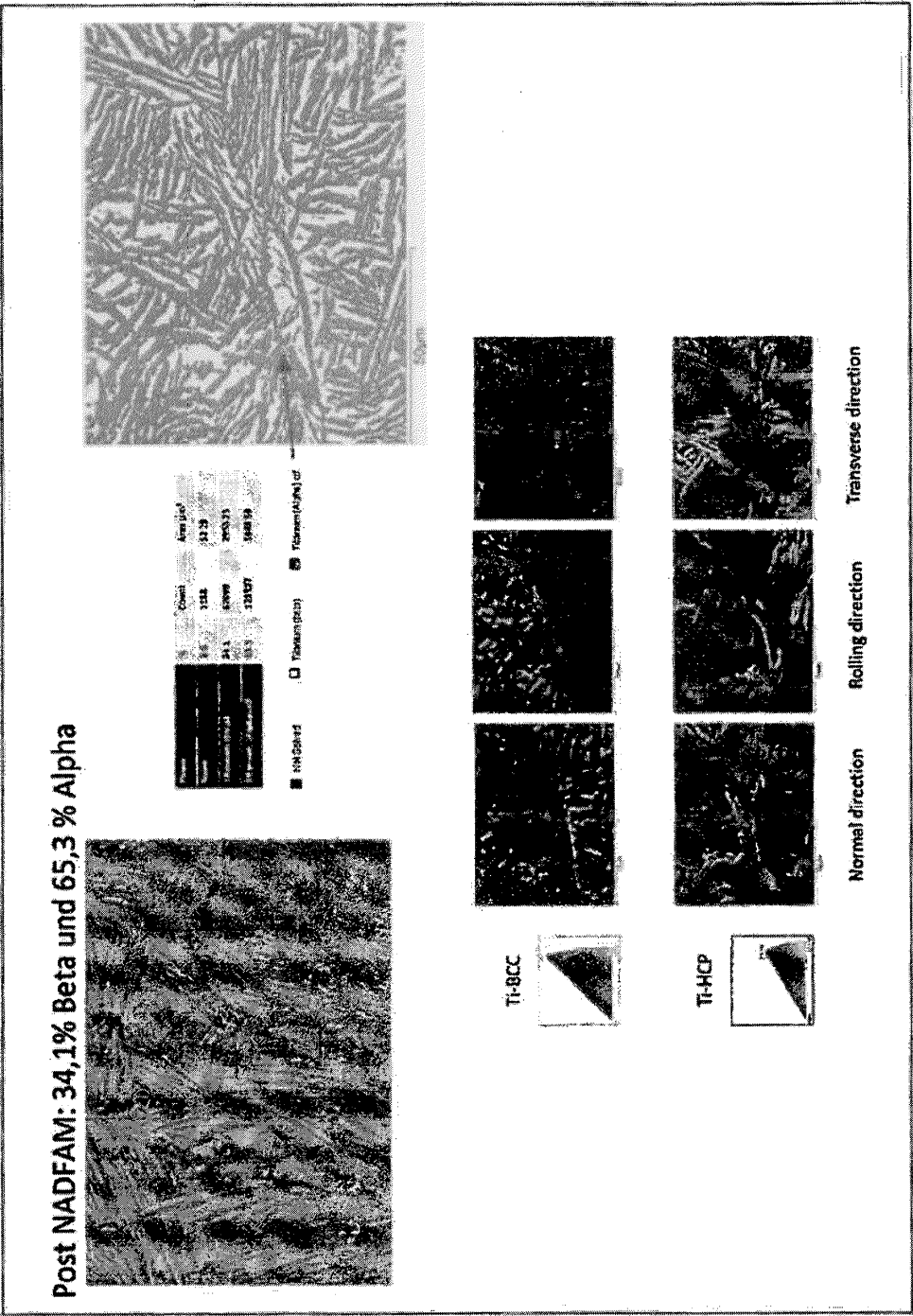
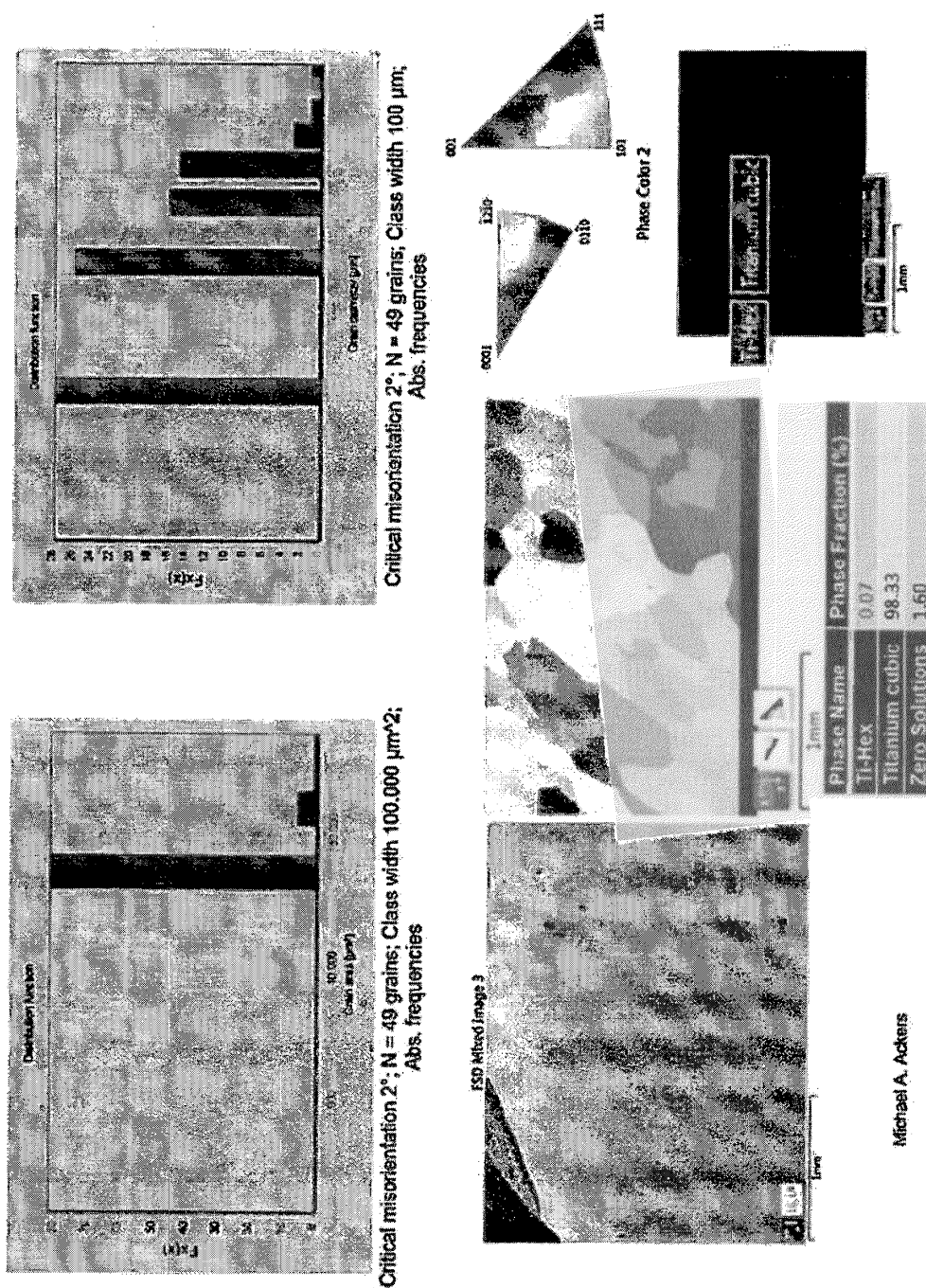
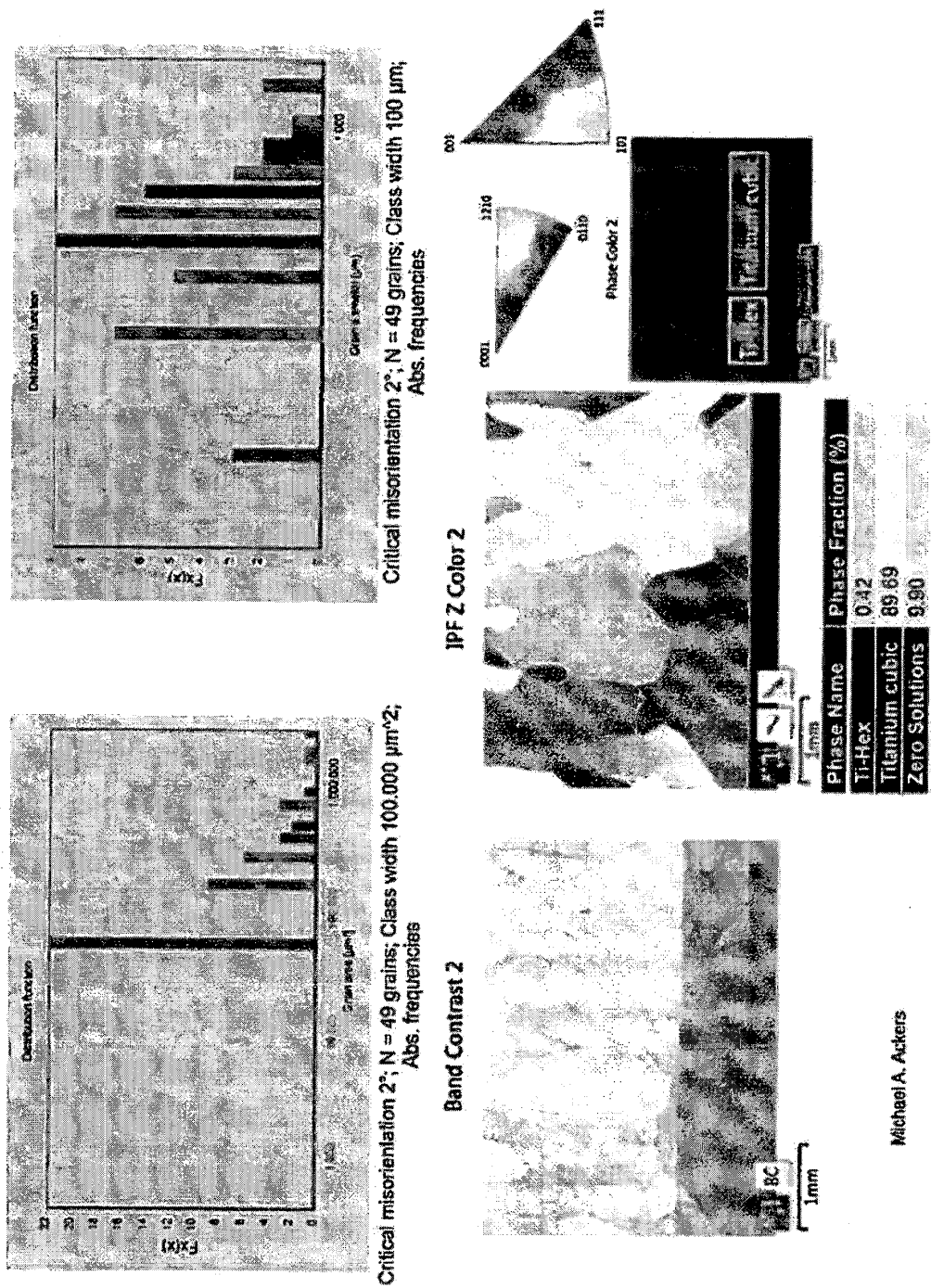


Figure 5: Microstructure of TTFNZ after arc melting conditions



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Figure 6: Microstructure of TTFS after arc melting conditions



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