Claims:

1. Method for repairing a gas turbine component ~~(7)~~, which at least at the spot to be repaired consists of a ceramic composite material, ~~characterized in that~~wherein an energy beam ~~(1)~~ locally heats the gas turbine component ~~(7)~~ in a zone, ~~and that~~ wherein one or more auxiliary materials ~~(13)~~ and optionally fibers ~~(12)~~ and/or particles are fed to this zone, wherein a ceramic is generated in the melting zone ~~(4)~~ through this auxiliary material ~~(13)~~ or these auxiliary materials ~~(13)~~, which together with the fed fibers ~~(12)~~ and/or particles forms a ceramic composite material, ~~(6)~~.

~~2. Method according to claim 1, characterized in that~~ and wherein the fed auxiliary material ~~(13)~~ or the fed auxiliary materials ~~(13)~~ completely or partially react to a ceramic in a chemical reaction in said zone.

~~3.~~2. Method according to claim ~~2~~1, ~~characterized in that~~wherein the auxiliary materials ~~(13)~~ include a metal and a non-metal, which in the chemical reaction react to a ceramic, and wherein the proportion of the metal is higher, preferably 20 to 40 %, than the proportion of the non-metal.

~~4.~~3. Method according to claim 1, ~~characterized in that~~wherein the fed auxiliary material ~~(13)~~ or the fed auxiliary materials ~~(13)~~ contain the ceramic to be generated.

~~5.~~4. Method according to any one of the preceding claims, ~~characterized in that~~ wherein the auxiliary material ~~(13)~~ or the auxiliary materials ~~(13)~~ and/or the fibers ~~(12)~~ and/or the particles are chosen in such a way that they generate

the same ceramic composite material ~~(6)~~, of which the gas turbine component ~~(7)~~ also mainly consists.

~~6.~~5. Method according to any one of the preceding claims, ~~characterized in that~~ wherein the fed auxiliary material ~~(13)~~ or the fed auxiliary materials ~~(13)~~ and/or the fibers ~~(12)~~ and/or the particles are pre-deposited and/or are fed via one or more feeders ~~(2, 3)~~.

~~7.~~6. Method according to any one of the preceding claims, ~~characterized in that~~wherein the energy beam ~~(1)~~ is realized as a laser beam.

~~8.~~7. Method according to any one of the preceding claims, ~~characterized in that~~ wherein the energy beam ~~(1)~~ is realized as an electron beam.

~~9.~~8. Method according to any one of the preceding claims, ~~characterized in that~~ wherein the energy beam ~~(1)~~ is realized as an induction field.

~~10.~~9. Device for carrying out a method according to any one of the preceding claims, ~~characterized in that~~wherein a flux cored wire ~~(14)~~ is provided for feeding the auxiliary materials ~~(13)~~ and/or the fibers ~~(12)~~.

~~11.~~10. Device according to claim ~~10~~9, ~~characterized in that~~ wherein the flux cored wire ~~(14)~~ comprises an outer sheath ~~(10)~~, wherein the material of the outer sheath ~~(10)~~ itself can include one or more auxiliary materials ~~(13)~~, and the outer sheath ~~(10)~~ encloses an interior ~~(9)~~, wherein auxiliary materials ~~(13)~~ and/or fibers ~~(12)~~ and/or particles are provided in the interior ~~(9)~~.

~~12.~~11. Device according to claim ~~10~~ 9 or ~~11~~10, ~~characterized in that~~wherein a gas stream ~~(11)~~ is provided in the interior ~~(9)~~ of the flux cored wire ~~(14)~~, which is preferably used to provide a protective gas and/or reactant gas ~~(15)~~ for the repair method.