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(71) Applicant: **EVONIK OPERATIONS GMBH** [DE/DE];
Rellinghauser Strasse 1-11, 45128 Essen (DE).

(72) Inventors: **LYUBINA, Julia**; Eschenstr. 5, 01097 Dresden (DE). **BADE, Stefan**; 15 Rue de la Fontaine, 68220 Michelbach Le Haut (FR). **WIGGERS, Hartmut**; Riesweg

33, 48734 Reken (DE). **ORTHNER, Hans**; Brauerstr. 19, 47058 Duisburg (DE).

(74) Agent: **EVONIK PATENT ASSOCIATION**; c/o Evonik Industries AG / IP Management, Bau 1042A / PB 15, Paul-Baumann-Straße 1, 45772 Marl (DE).

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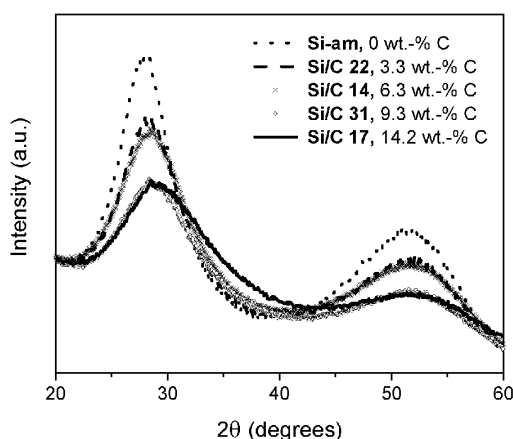


Fig. 4a

(57) Abstract: Object of the invention are amorphous silicon carbon composite particles comprising as components of the particles 85 to 99,63 wt.-% silicon content, 0.3 to 15 wt.-% carbon content, and at least 0.07 wt.-% hydrogen content, wherein the components sum up to 100 wt.-%, and wherein the carbon content in the area beneath the surface of the particles starting with the surface and reaching up to at least 30 nm from the surface in direction to the centre of the particles is at least 3 wt.-% higher than in the area of the centre of the particles, wherein the area of the centre is the remaining part of the particles and is directly joined to the area beneath the surface.

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