

Title (en)

Paste for solar cell electrode and electrode using the same and solar cell using the same

Title (de)

Paste für Solarzellenelektrode und Elektrode damit und Solarzelle, die diese benutzt

Title (fr)

Colle pour électrode à cellules solaires et électrode l'utilisant et cellule solaire l'utilisant

Publication

**EP 2444979 A1 20120425 (EN)**

Application

**EP 10195259 A 20101215**

Priority

KR 20100090672 A 20100915

Abstract (en)

Disclosed herein are pastes for solar cell electrodes exhibiting superior printability and conversion efficiency. The paste includes (a) a conductive powder, (b) a glass frit, (c) an organic vehicle, and (d) metal oxide particles comprising nanometer scale particles having an average particle diameter (D50) of 15 to 50 nm and micron scale particles having an average particle diameter (D50) of 0.1 to 2  $\mu\text{m}$ . The present invention also discloses an electrode formed of the paste for solar cell electrodes, and a solar cell comprising the electrode, which has improved paste printability while exhibiting superior conversion efficiency.

IPC 8 full level

**H01B 1/22** (2006.01)

CPC (source: EP)

**H01B 1/22** (2013.01)

Citation (search report)

- [A] EP 1713092 A2 20061018 - DU PONT [US]
- [A] US 2009301553 A1 20091210 - KONNO TAKUYA [JP], et al

Cited by

DE102013009241A1; CN103714912A; CN114203334A; US10636540B2; US10056508B2; WO2021119428A3; US9236155B2; US9934880B2; DE102013009241B4

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**EP 2444979 A1 20120425; EP 2444979 B1 20130717**; CN 102403047 A 20120404; CN 102403047 B 20150722; JP 2012064916 A 20120329; JP 5568001 B2 20140806; KR 101374359 B1 20140318; KR 20120028789 A 20120323

DOCDB simple family (application)

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