



以矽泥廢料製造一氧化矽沉積物之方法

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簡歷：請參閱系所網頁

<http://www.che.ntu.edu.tw/che/?p=501>

市場及需求：半導體及相關產業

技術摘要(含成果)：一種以矽泥廢料製造一氧化矽沉積物之方法。根據本發明之方法係將矽泥廢料的多顆矽粉體之反應部份利用酸、鹼反應成多顆二氧化矽粉體，再將多顆矽粉體之剩餘部份與多顆二氧化矽粉體來反應成一氧化矽並昇華為一氧化矽蒸氣，再收集一氧化矽將其冷卻成一氧化矽沉積物。

優勢：廢棄的矽泥回收再利用

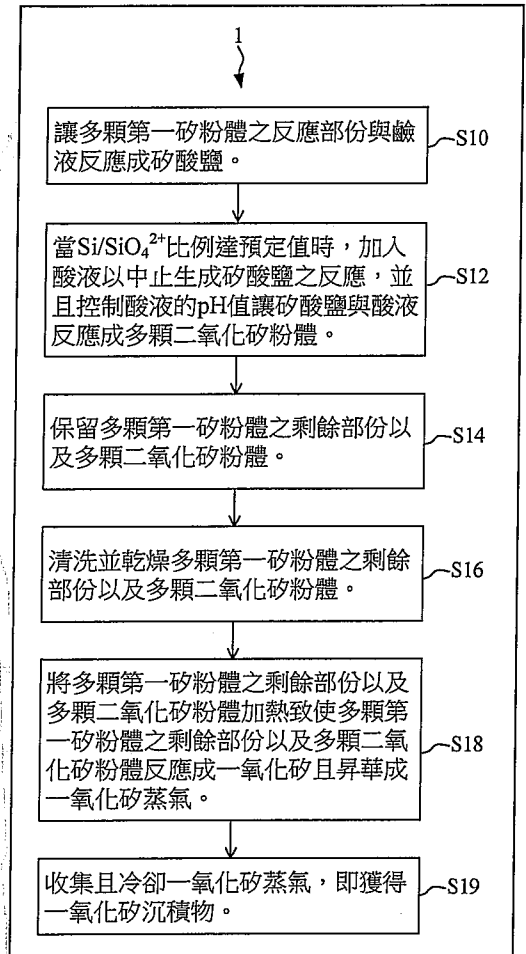
競爭產品：市面上 SiO 成品

專利現況：申請中

聯絡方式(請不用填)：

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METHOD OF MANUFACTURING SILICON MONOXIDE DEPOSIT BY USE OF SILICON KERF WASTE

PI : Prof. Chung-Wen Lan
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Experience:

Refer to
<http://www.che.ntu.edu.tw/che/?p=501>

Market Needs:

Semiconductor Industry

Our Technology:

The invention discloses a method of manufacturing a silicon monoxide deposit by use of a silicon kerf waste. The method according to the invention is to react a reaction portion of a plurality of silicon powders by acid and alkali solutions into a plurality of silicon dioxide powders, to utilize a retained portion of the plurality of silicon powders and the plurality of silicon dioxide powders to react into a silicon monoxide vapor, and to collect and cool the silicon monoxide vapor into the silicon monoxide deposit.

Strength:

Recycle the waste silicon

Competing Products:

Existed SiO powder

Intellectual Properties:

Patent Pending

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