



(19) TAIWAN INTELLECTUAL PROPERTY OFFICE

(12) INVENTION SPECIFICATION PUBLICATION

(11) PUBLICATION NUMBER: TW 201341113 A

(43) PUBLICATION DATE: 16 OCTOBER 2013

(21) APPLICATION NUMBER: 101112625

(22) APPLICATION DATE: 10 APRIL 2012

(51) INT. CL.: *B24B37/04 (2012. 01)**H01L21/30 (2006. 01)**H01L21/306 (2006. 01)*

(71) APPLICANTS: RITEDIA CORPORATION (TW)

NO. 17, KUANG-FU NORTH ROAD, HSINCHU INDUSTRIAL PARK, HUKOU, HSINCHU COUNTY

(72) INVENTORS: SUNG, CHIEN MIN (TW); YEH, WEN TING (TW)

(74) AGENTS: SU, CHIEN TAI; LIN, KUAN HONG

APPLICATION FOR SUBSTANTIVE EXAMINATION: YES

NUMBER OF CLAIMS: 38 NUMBER OF FIGURES: 9 43 PAGES IN TOTAL

(54) TITLE

COMPOSITE CONDITIONER AND METHOD FOR MANUFACTURING THE SAME AND CMP APPLICATION THEREOF

(57) ABSTRACT

A composite conditioner includes: a base plate; a plurality of polishing units placed on the base plate and each polishing unit including a bonding layer and a plurality of polishing tips that are bonded in plane by the bonding layer; and an adhesive layer of which thickness is adjustable and used to secure the polishing units on the base plate, wherein a height difference between the first and second highest tips, between the first and tenth highest tips, and between the first and 100th highest tips based on a predetermined plane is respectively less than 10 μm , 20 μm , and 40 μm , and the protrusion height of the first highest tip above the bonding layer is greater than 50 μm . The present invention also relates to a method for manufacturing the conditioner and application thereof.

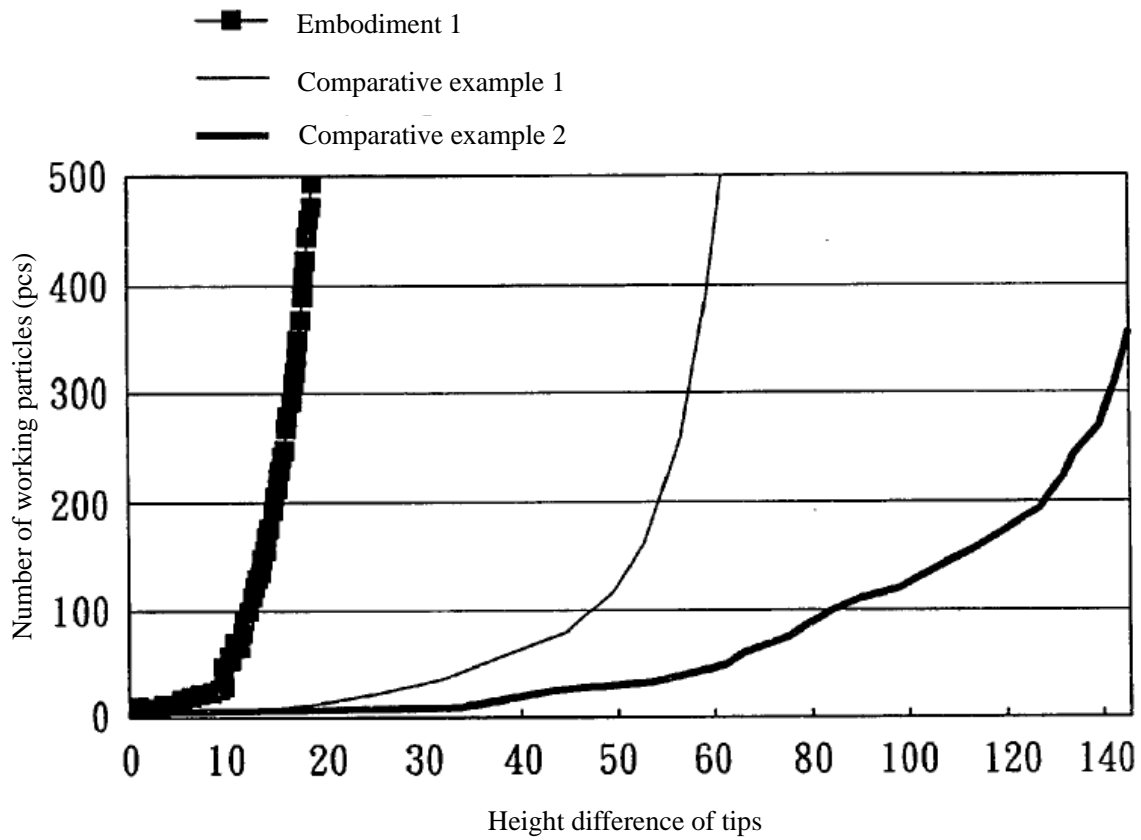


Fig. 3

Invention Patent Specification

(Please do not modify the format and sequence of this specification arbitrarily and do not fill in the parts marked with ※)

※ Application Number: *101112625*

※ Application Date: 10 April 2012

※ IPC Category: *B24B 37/04* (2006. 01)

H01L 21/304 (2006. 01)

H01L 21/306 (2006. 01)

I. Title of the Invention: (Chinese/English)

COMPOSITE CONDITIONER AND METHOD FOR MANUFACTURING THE SAME AND CMP APPLICATION THEREOF

II. Invention Abstract in Chinese:

A composite conditioner includes: a base plate; a plurality of polishing units placed on the base plate and each polishing unit including a bonding layer and a plurality of polishing tips that are bonded in plane by the bonding layer; and an adhesive layer of which thickness is adjustable and used to secure the polishing units on the base plate, wherein a height difference between the first and second highest tips, between the first and tenth highest tips, and between the first and 100th highest tips based on a predetermined plane is respectively less than 10 μm , 20 μm , and 40 μm , and the protrusion height of the first highest tip above the bonding layer is greater than 50 μm . The present invention also relates to a method for manufacturing the conditioner and application thereof.

III. Abstract in English:

A composite conditioner includes: a base plate; a plurality of polishing units placed on the base plate and each polishing unit including a bonding layer and a plurality of polishing tips that are bonded in plane by the bonding layer; and an adhesive layer of which thickness is adjustable and used to secure the polishing units on the base plate, wherein a height difference between the first and second highest tips, between the first and tenth highest tips, and between the first and 100th highest tips based on a predetermined plane is respectively less than 10 μm , 20 μm , and 40 μm , and the protrusion height of the first highest tip above the bonding layer is greater than 50 μm . The present invention also relates to a method for manufacturing the conditioner and application thereof.

IV. Designated Representative Image:

(I) The designated representative image of the present application is: Fig. (3).

(II) Brief description of signs in the representative image:

No

V. If there are chemical formulae, please disclose the chemical formula that can best show the features of the invention:

[No]

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.