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(71) Applicant: **AKRIBIS SYSTEMS PTE. LTD.** [SG/SG];
Blk 5012 Ang Mo Kio Avenue 5, #01-05 Techplace II, Singapore 569876 (SG).

(72) Inventors: **YONG, Chun Seng**; Blk 5012 Ang Mo Kio Avenue 5, #02-03 Techplace II, Singapore 569876 (SG).
PHEY, Kenneth; Blk 5012 Ang Mo Kio Avenue 5, #02-03 Techplace II, Singapore 569876 (SG).

(74) Agent: **TAN, Seng Ngee**; P.O. Box 637, Bukit Merah Central, Singapore 911535 (SG).

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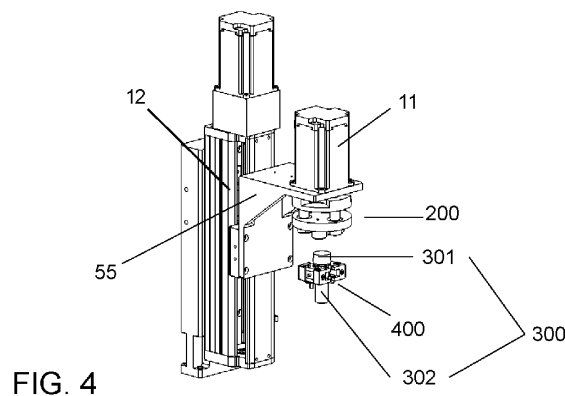
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(54) Title: SELF-GRIPPING SCREWING AND UNSCREWING DEVICE



(57) Abstract: A self-gripping screwing and unscrewing device for a cylindrical part of a cylindrical article is disclosed. A plurality of finger members, each being mounted with an eccentric rubber sleeve, are used to twist and engage with the cylindrical top part, and to reduce the grip on the top part when a resisting torque is removed or returned to the initial position after the top part is being removed. An initial grip is maintained on the part when not subjected to a twist load or in the opposite direction of the designed engagement, allowing handling of the part. Design of the invention increases grip force by allowing eccentric rubber sleeves to deform directionally, which can be designed with a pair if both clock and anti-clock wise direction are critical.



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