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Title: IMPROVEMENTS IN AND RELATING TO A METHOD OF AND APPARATUS FOR MAKING HOLLOW RUBBER ARTICLES

Abstract: 151,397. Roberts, F. T. July 8, 1919. Balls. - Relates to the manufacture of hollow rubber articles having an opening from the interior, such as football bladders, by cutting and moulding together rubber sheets seated by vacuum in two sets of mould cavities. As shown in Fig. 40, reinforcing-strips U, V are employed, which are placed in position after the sheet is seated and prior to closure of the mould.

Classifications:

International (IPC 8-9): B29C65/00 B29C65/50 B29C69/00

B29D22/00 (Advanced/Invention);

B29C65/00 B29C65/50 B29C69/00 B29D22/00 (Core/Invention)

International (IPC 1-7): B29H7/02

CPC: B29C65/5092 B29C51/267 B29C65/5042 B29C66/54

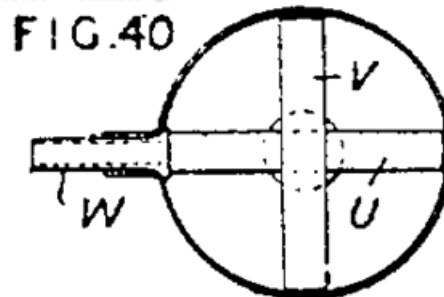
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B29C66/8322 B29C66/71 B29C66/63 B29C66/1122 B29C66/137

European: B29C51/26M2 B29C65/50B B29C66/54 B29C66/61

B29C66/612 B29D22/00 L29K21/00 L29L22/02

PatBase - GB151397_A



Family:

Publication number	Publication date	Application number	Application date
FR508591 A	19201015		19190818
GB151397 A	19200930	GB19190017085	19190708

Priority:

GB19190017085 19190708

Probable Assignee: FRED THOMAS ROBERTS

Assignee(s): (std): ARANAR CO ; ARANAR COMPANY ; FRED THOMAS ROBERTS

Assignee(s): THE ARANAR COMPANY

Title: FLEXIBLE PROTECTIVE COVERING SHEET MATERIAL

Abstract: (Claim 1) 1. A flexible protective covering sheet material comprising a layer of lead foil and a sheet of fabric reinforced flexible corrosion-resistant **heat**-sealable material having a thickness of not less than 0.01 inch adhered to each side of and impressed into the said foil.

Classifications:

International (IPC 8-9): B29C65/00 B29C65/18 B29C65/50

B32B15/08 B32B27/00 B65D65/40 (Advanced/Invention);

B29C65/00 B29C65/18 B29C65/50 B32B15/08 B32B27/00

B65D65/40 (Core/Invention)

International (IPC 1-7): B29C24/00

CPC: B29C66/5244 B29C66/52441 B29C66/52451 B29C65/5071

B29C65/5085 B32B27/00 B29C65/02 B29C65/04 B29C65/18

B29C66/003 B29C66/1142 B29C66/301 B29C66/43 B29C66/80

B29C66/861 B29C66/8614 B29C66/87445 B29L2031/003 B32B15/08

B29C66/81427 B29C65/4815 B29C65/482 B29C65/483

B29C66/43421 B29C66/43441 Y10T24/2518 Y10T24/2538

Y10T156/101 Y10T428/265 B29C66/8322 Y10T428/31703

Y10T442/3415 Y10T442/3431 B29C66/112 B29C66/131

B29C66/4326 B29C66/71 B29C66/721 B29C66/7392 B29C66/8221

B29C66/8612

European: B29C65/02 B29C65/04 B29C65/18 B29C65/50E

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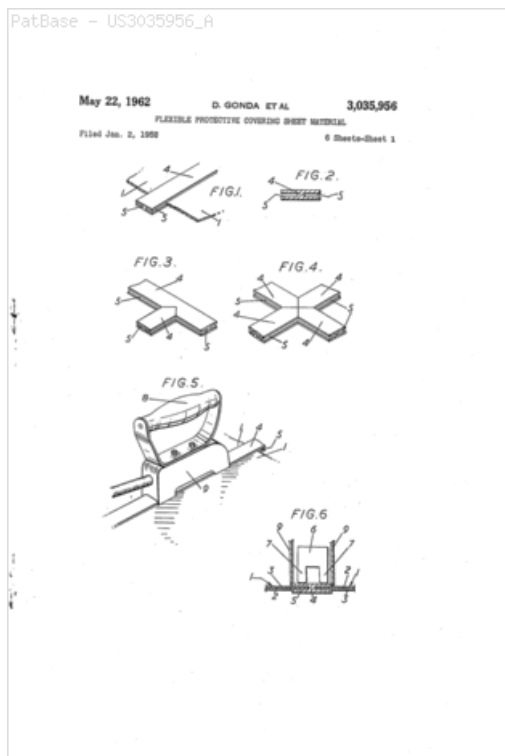
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L29C66/8614 L29L31/00B4

US: 156/201 156/313 156/464 24/391 24/402 428/336 428/464

442/232 442/234



Family:

Publication number	Publication date	Application number	Application date
US3035956 A	19620522	US19580706782	19580102

Priority:

US19580706782 19580102

Probable Assignee: E P S RES AND DEV LTD

Assignee(s): (std): E P S RES AND DEV LTD

Assignee(s): E P S RESEARCH AND DEVELOPMENT LTD ; EPS RESEARCH AND DEVELOPMENT LTD

Inventor(s): (std): DESIRE GONDA ; LAWRENCE HAWLEY EDWIN

Inventor(s): GONDA DESIRE ; HAWLEY EDWIN LAWRENCE

Title: METALLIC **CONTAINER** HAVING A CIRCUMFERENTIAL BONDED PORTION AND PROCESS FOR PRODUCTION THEREOF

Abstract: A metallic **container** composed of a first and a second section each composed of a metallic cup-like fabricated article having a primer coating, the two sections being lap-bonded at their circumferential open end portions by means of a thermoplastic film-like adhesive. A process for producing said metallic **container** is also provided which comprises a fabricating step of producing the first and second sections, an adhering step of **heat**-adhering a film-like adhesive to the peripheral surface of the open end portion of the second section to be laid inwardly, and a bonding step of bonding the open end portions of the first and second sections. In the metallic **container**, the film-like adhesive, forming a circumferential overlapping portion, is adhered to the edge of the open end portion of the second section and its inner circumferential surface following the edge.

Classifications:

International (IPC 8-9): B21D51/26 B23P11/00 B23P15/00 B29C53/00 B29C55/00 B29C65/00 B29C65/02 B29C65/40 B29C65/46 B29C65/50 B29C65/52 B29C65/78 B29C69/00 B65D8/18 B65D8/22 C08J5/00 C09J5/00 C09J5/10 F16B11/00

G01N25/72 (Advanced/Invention); B23P11/00 B23P15/00 B29L23/00 (Advanced/Non-invention); B21D51/26 B23P11/00 B23P15/00 B29C53/00 B29C55/00 B29C65/00 B29C65/02 B29C65/40 B29C65/44 B29C65/50 B29C65/52 B29C65/78 B29C69/00 B65D8/04 C08J5/00 C09J5/00 C09J5/10 F16B11/00 G01N25/72 (Core/Invention)

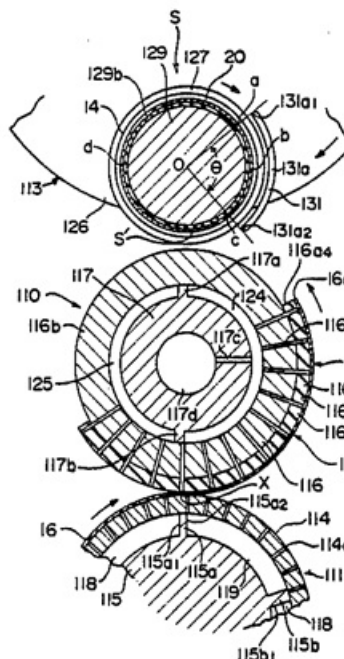
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CPC: G01N25/72 B21D51/2684 B29C65/525 B29C65/526 B29C66/91216 B65D7/34 C09J5/10 F16B11/006 B29C65/7847 B29C66/91221 B21D51/26 B29C66/5344 B29C69/006 B29C66/71 B29C66/54 B29C65/3656 B29C65/3668 B29C65/368 B29C65/46 B29C65/4815 B29C66/72321 B29C66/742 B29C66/7422 B29C66/74283 B29C66/836 B29C66/91951 B29C66/91411 B29C66/91443 B29C66/91445 B29C66/91655 B29C66/919 B29C66/63 Y10T156/1051 B29C66/961 B29K2995/0039 B29C65/18 B29C65/32 B29C66/83413 B29C66/81821 B29C66/8122 B29C65/7885 B29C66/8262 B29C66/65 B29C66/1122 B29C66/24221

European: B21D51/26 B21D51/26M B29C65/52 B29C66/534 B29C66/91216 B29C69/00U2 B65D7/34 C09J5/10 F16B11/00F G01N25/72 L29C66/71 L29C66/9121 L29C66/91216

US: 156/227 156/272.4 156/274.6 156/275.3 156/294 156/69 219/10.53 219/604 219/633

PatBase - US4783233_A



Title: METHOD FOR BONDING **CYLINDRICAL** MEMBERS, METHOD FOR MANUFACTURING COMPOSITE **CYLINDRICAL** BODY, METHOD FOR MOLDING FIBER-REINFORCED RESIN MOLDED OBJECT AND MOLDED OBJECT

Abstract: A method for bonding **cylindrical** members includes: a step of arranging a reinforcement fiber base material (2) over a bonding portion; a step of hermetically sealing the arranged reinforcement fiber base material (2) on the outer circumferential surfaces by covering the material with a bag material; a step of depressurizing the space between the outer circumferential surfaces of the **cylindrical** members and the bag material; a step of supplying a resin having fluidity into the bag material; and a step of bonding the **cylindrical** members (10) by curing the resin. The reinforcement fiber base material (2) is provided with an inner layer base material (21) to be arranged along the outer circumferential surface of a bonding portion (101), and a plurality of pieces of an outer layer base material (22) to be arranged on over another on the outer side of the inner layer base material (21). The pieces of the outer layer base material (22) are arranged such that the pieces partially overlap each other.

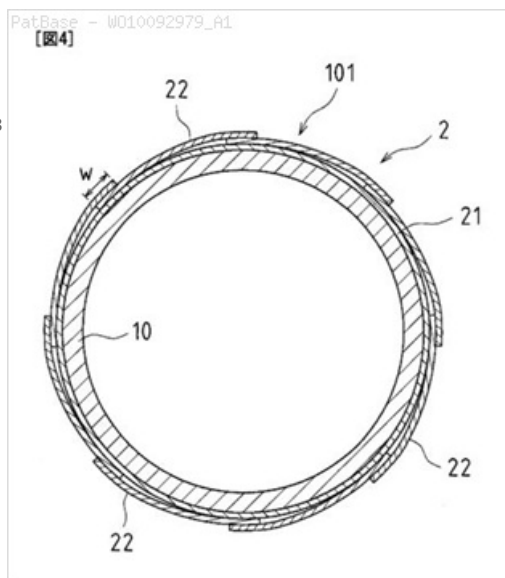
Classifications:

International (IPC 8-9): B29C39/10 B29C39/42 B29C43/10 B29C65/48 B29C65/50 B29C70/36 B29C70/44 B29C70/84 B29K105/08 B29L23/00 F16L11/10 F16L47/02 F16L47/06 F16L47/28 F16L47/32 (Advanced/Invention); B29C53/38 B29C65/50 B29K105/08 B29L23/00 F16L47/06 F16L47/28 F16L47/32 (Advanced/Non-invention); B29C39/10 B29C39/42 B29C43/10 B29C65/50 (Core/Invention)

CPC: B29C66/52298 B29C65/5078 B29C53/385 B29C65/5014

B29C65/5021 B29C65/5042 B29C66/116 B29C66/1162 B29C66/1224 B29C66/1226 B29C66/12261 B29C66/5223 B29C66/52241 B29C66/81455 B29C70/443 B29C70/446 B29C70/845 B29C2043/3644 B29K2105/06 B29L2031/243 B29L2031/246 F16L13/11 F16L43/008 F16L47/06 F16L47/28 F16L47/32 B29C65/4815 B29C65/482 B29C65/4825 B29C65/483 B29C66/7212 B29C66/72141 B29C66/72143 B29C66/721 B29C66/63

European: B29C53/38C B29C65/50A2 B29C65/50A4 B29C65/50B B29C65/50E4 B29C66/116 B29C66/1162 B29C66/1224 B29C66/1226 B29C66/12261 B29C66/5223 B29C66/52241 B29C66/81455 B29C70/44A B29C70/44B B29C70/84A F16L13/11 F16L43/00F F16L47/06 F16L47/28 F16L47/32 L29C43/36D1 L29C53/38C L29C66/721 L29K105/06 L29L31/24B L29L31/24D



Family:

Publication number	Publication date	Application number	Application date
■ CN102317054 A	20120111	CN201080007936	20100210
■ CN102317054 B	20131127	CN201080007936	20100210
■ CN201816219 U	20110504	CN201020116260U	20100210
■ DE602010007670 D1	20130801	DE201060007670T	20100210
■ EP2397312 A1	20111221	EP20100741256	20100210
■ EP2397312 A4	20120718	EP20100741256	20100210
■ EP2397312 B1	20130605	EP20100741256	20100210
■ EP2540482 A1	20130102	EP20120006292	20100210
■ EP2540483 A1	20130102	EP20120006293	20100210
■ JP2010208314 A2	20100924	JP20090153933	20090629
■ JP5406607 B2	20140205	JP20090153933	20090629
■ WO10092979 A1	20100819	WO2010JP51960	20100210

Priority:

JP20090032658 20090216 JP20090153933 20090629 EP20100741256 20100210
WO2010JP51960 20100210

Probable Assignee: SEKISUI CHEMICAL CO LTD

Assignee(s): (std): KAWASAKI SHOHEI ; SEKISUI CHEMICAL CO LTD ; TANAKA KATSUYA

Assignee(s): SEKISUI CHEM CO LTD ; SEKISUI CHEMICAL CO

Inventor(s): (std): TANAKA KATSUYA ; KAWASAKI SHOHEI ; SHOHEI KAWASAKI ; KATSUYA TANAKA

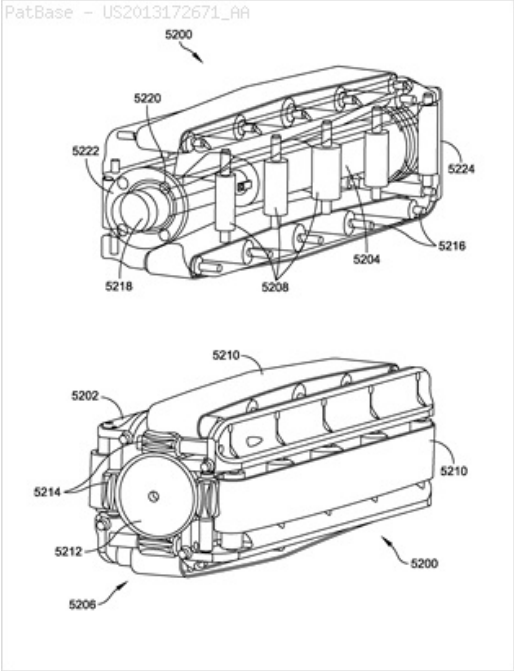
Agent(s): MUELLER BORE AND PARTNER PATENTANWALTE PARTG MBB; MUELLER BORE AND PARTNER PATENTANWALTE; MUELLER BORE AND PARTNER PATENTANWALTE; Müller-Boré & Partner Patentanwälte; ARC PATENT ATTORNEYS OFFICE

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: ROBOTIC CAPSULE ENDOSCOPE FOR MINIMALLY INVASIVE SURGICAL PROCEDURES, MICRO-PATTERNED TREADS FOR FRICTION ENHANCEMENT OF A ROBOTIC CAPSULE ENDOSCOPE IN A BIOLOGICAL ENVIRONMENT, AND PROCESS FOR FABRICATION OF MICRO-TREADS

Abstract: Micro-patterned treads for endoscopes are disclosed. In an embodiment, the treads include a micro-patterned surface and a roller engaging surface. Micro-patterned tread bearing robotic capsule endoscopes are disclosed. In one embodiment, the endoscope includes a housing, a motor, a geared drive, rollers, and at least one micro-patterned tread. Methods of fabricating closed loop treads are disclosed. In an embodiment, a method includes forming a solid layer of PDMS on one side of double-sided tape and wrapping a micro-patterned PDMS strip together with the other side of the double-sided tape. In another embodiment, a method includes forming a timing belt PDMS strip on one side of double-sided tape and a micro-patterned PDMS strip together with the other side of the double-sided tape.

Classifications:
International (IPC 8-9): A61B1/00 A61B1/04 B29C65/50 B32B25/20 B32B3/30 (Advanced/Invention)
CPC: A61B1/00156 A61B1/0011 B29C65/50 B32B3/30 A61B1/0016 A61B1/041 B32B25/20 B32B2255/10 B32B2255/205 B32B2433/00 Y10T428/24479
US: 1/1 156/137 156/247 428/156 600/101 600/109



Family:

Publication number	Publication date	Application number	Application date
US2013172671 AA	20130704	US20120692743	20121203
US9339169 BB	20160517	US20120692743	20121203

Priority:
US20110566611P 20111203 US20120692743 20121203

Probable Assignee: UNIV COLORADO REGENTS

Assignee(s): (std): UNIBERSITY OF COLORADO A BODY CORPORATE ; UNIV COLORADO REGENTS

Assignee(s): THE UNIV OF COLORADO A BODYCORPORATE ; UNIBERSITY OF COLORADO A BODYCORPORATE ; UNIV OF COLORADO A BODYCORPORATE ; OF COLORADO A BODY CORPORATE UNIV ; THE UNIBERSITY OF COLORADO A BODY CORPORATE ; THE UNIBERSITY OF COLORADO A BODYCORPORATE ; THE UNIV OF COLORADO A BODY CORPORATE

Inventor(s): (std): TERRY BENJAMIN SPENCER ; SLIKER LEVIN JOHN ; SCHOEN JONATHAN ; RENTSCHLER MARK EDWIN ; KERN MADALYN DIANE

Agent(s): JAMES A; SHERIDAN LAW LLC