

Search query (4): [SP]: aluminum impact extruded bottle with threaded neck made from recycled aluminum and enhanced alloys the present invention relates generally to forming a threaded neck in a metal bottle manufactured by a process known as impact extrusion. more specifically, the present invention relates to methods, apparatus and alloy compositions used in the impact extrusion manufacturing of containers and other articles with sufficient strength characteristics to allow threading the container necks to receive a threaded closure on the threaded neck.

Results: 127

Search history

Search TAC=(process or method and thread and bottle) (Results 1898)

1:

Search TAC=(1 and aluminium) (Results 82)

2:

Search TAC=(2 and extrusion) (Results 7)

3:

Search [SP]: aluminum impact extruded bottle with threaded neck made from recycled aluminum and enhanced alloys the present invention relates generally to forming a threaded neck in a metal bottle manufactured by a process known as impact extrusion. more specifically, the present invention relates to methods, apparatus and alloy compositions used in the impact extrusion manufacturing of containers and other articles with sufficient strength characteristics to allow threading the container necks to receive a threaded closure on the threaded neck. (Results 127)

Title: Method and apparatus for the manufacture of threaded aluminum containers

Abstract: Source: US5293765A Deep drawn, deep drawn and stretched, or extruded cylindrical aluminium containers are varnished internally and externally, provided with a twostage neck by drawing in and onto the neck is rolled a thread, followed by cutting to length. The drawing-in of the neck, thread rolling and cutting to size are performed with the same container setting. To improve the flexibility, adhesiveness and sliding characteristics, the varnish used is mixed with catalysts, plasticizers and/or lubricants. When the thread is rolled, the container neck is supported from the inside with a quasi-stationary screw-pitch gauge, while from the outside a thread roll is rolled over the neck surface and presses the thread inwards into the neck. The screw-pitch gauge and the thread roll are forcibly guided in such a way that a slip occurs between them and the neck material. As a result the varnish also remains intact in the vicinity of the thread.

Classifications:

International (IPC 8-9): B21D51/24 B21D51/38 B21D51/40

B21H3/04 B23G7/00 B65D1/00 B65D1/02 B65D1/16

B65D1/26 (Advanced/Invention);

B21D51/16 B21D51/38 B21H3/00 B23G7/00 B65D1/00 B65D1/02

B65D1/22 (Core/Invention)

International (IPC 1-7): B21D51/24 B21D51/40 B21H3/04 B23G7/00

B65D1/00 B65D1/02 B65D1/09 B65D1/16

CPC: B21D51/24 B21D51/38 B21H3/04 B65D1/0246 B65D1/26

European: B21D51/24 B21D51/38 B21H3/04 B65D1/02D1B

B65D1/26

US: 72/103 72/120 72/42

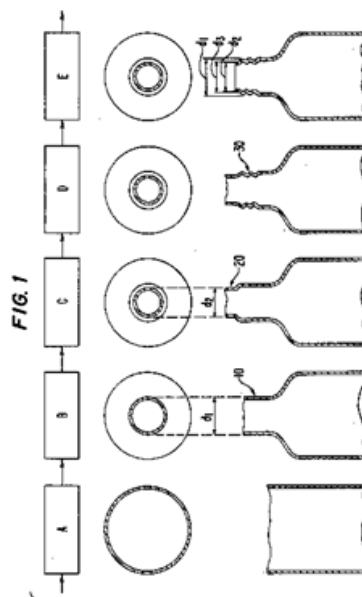
PatBase - US5293765_A

U.S. Patent

Mar. 15, 1994

Sheet 1 of 4

5,293,765



Family:

Publication number	Publication date	Application number	Application date
AT119441 E	19950315	AT19910810599T	19910726
DE59104891 D1	19950413	DE19915004891	19910726
EP0510291 A1	19921028	EP19910810599	19910726
EP0510291 B1	19950308	EP19910810599	19910726
EP0510291 B2	20000426	EP19910810599	19910726
ES2073722 T3	19950816	ES19910810599T	19910726
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JP3375661 B2	20030210	JP19920125585	19920417
JP5229545 A2	19930907	JP19920125585	19920417
US5293765 A	19940315	US19920869296	19920416

Priority:

CH19910001149 19910417

Probable Assignee: NUSSBAUM AND GUHL AG

Assignee(s): (std): EE NUSUBAUMU AG ; NUSSBAUM AG E ; NUSSBAUM E AG ; NUSSBAUM UND GUHL AG

Assignee(s): NUSSBAUM AND GUHL AG ; E NUSSBAUM AG ; E NUSSBAUM AG MATZINGEN CH

Inventor(s): (std): NUSSBAUM POGACNIK THOMAS EUGEN ; TOOMASU OIGEN ; NUSSBAUM POGACNIK THOMAS E

Inventor(s): NUSSBAUM POGACNIK THOMAS EUGEN CH 8500 FRAUENFELD ; NUSSBAUM POGACNIK THOMAS EUGEN CH 8500...

Designated states: AT BE CH DE DK ES FR GB GR IT LI LU NL SE

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Results: 127

30) Family number: 12569387 (US5394727A)

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Title: METHOD OF FORMING A METAL CONTAINER BODY

Abstract: Source: US5394727A A method of forming a drawn metal cup for a container body which includes drawing a cup having a circular boss in its base wall, redrawing the cup and forming a pressure resistant profile in its base wall.

Classifications:

International (IPC 8-9): B21D22/20 B21D22/22 B21D22/30

B21D51/18 B21D51/26 B65D1/16 (Advanced/Invention);

B21D22/20 B21D51/26 (Advanced/Non-invention);

B21D22/20 B21D51/26 B65D1/00 (Core/Invention);

B21D51/18 (Core/Non-invention)

International (IPC 1-7): B21D B21D22/20 B21D22/28 B21D51/18

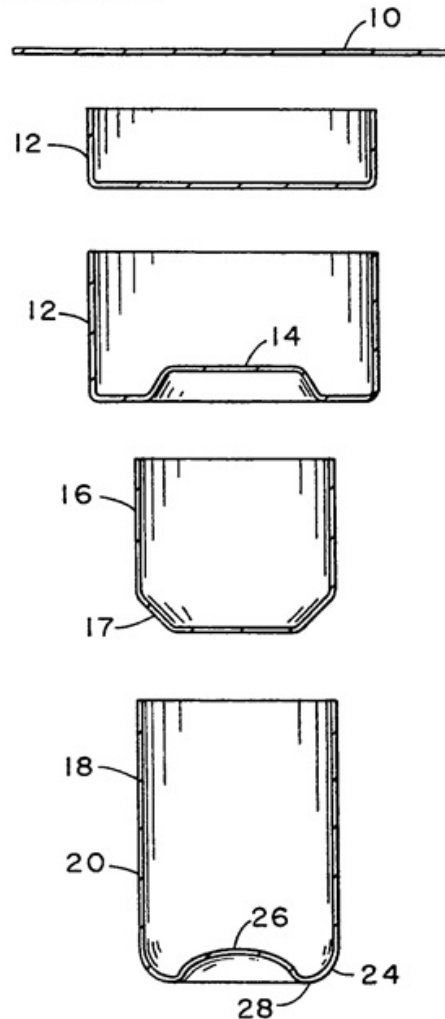
B21D51/26 B65D1/16

CPC: B21D22/22 B21D22/30

European: B21D22/22 B21D22/30

US: 72/348 72/379.4

PatBase - US5394727_A



Family:

Publication number	Publication date	Application number	Application date
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TH21441 A	19961029	TH19941001723	19940817
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WO9505253 A1	19950223	WO1994US09233	19940816
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Priority:

US19930108898 19930818 US19950370919 19950110 US19950397815 19950303
WO1994US09233 19940816

Probable Assignee: ALCOA INC

Assignee(s): (std): ALCOA INC ; ALUMINIUM CORP US ; ALUMINUM CO OF AMERICA ; ALUMINUM CO AMERICA ALCOA CT ; ALUMINUM CO OF AMERICA AL ; ALUMINUM COMPANY OF AMERICA AL ; DIEKHOF HANS H ; SMITH GEORGE L JR ; AMERICA ALUMINIUM CORP

Assignee(s): ALUMINUM COMPANY OF AMERICA ALCOA CENTER ; SMITH GEORGE L ; ALUMINUM COMPANY OF AMERICAUS ; Aluminum Company of America. ; ALUMINUM COMPANY ; ALUMINUM CO OF AMERICA ALCOA CENTER ; ALUMINUM CO OF AMERICA CORPORACION DEL ESTADO DE PENNSYLVANIA ; ALUMINUM COMPANY OF AMERICA ; ALUMINUM CO OF AMERICA ALCOA ; ALUMINUM CO ; ALUMINIUM CO OF AMERICA

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Agent(s): PHILLIPS ORMONDE FITZPATRICK; SMART AND BIGGAR; VILLASECA

Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK ES FI FR GA GB GE GN GR HU IE IT JP KE KG KP KR KZ LI LK LT LU LV MC MD MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SI SK SN TD TG TJ TT UA US UZ VN

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Results: 127

41) Family number: 15002746 (US5704240A)

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Title: Method and apparatus for forming threads in metal containers

Abstract: Source: US5704240A A methods for forming threads in the neck portion of a can made of thin gauge, hard temper metal which minimizes stretching of the metal in the neck portion. The method employs a grooved arbor and roller having a single thread lead around less than 360 DEG of the roller's perimeter.

Classifications:

International (IPC 8-9): B21D15/04 B21D51/26 (Advanced/Invention); B21D15/00 B21D51/26 (Core/Invention)

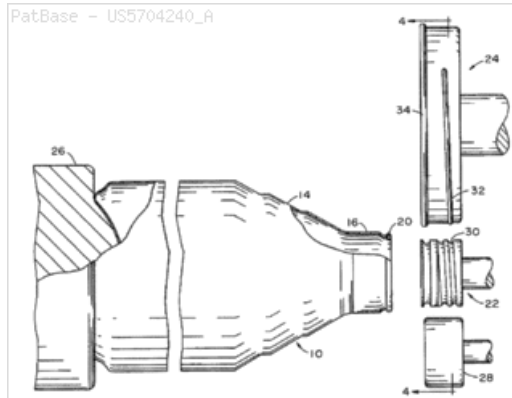
International (IPC 1-7): B21D51/38

CPC: B21D15/04 B21D51/2615

European: B21D15/04 B21D51/26B

US: 72/103 72/106

PatBase - US5704240_A



Family:

Publication number	Publication date	Application number	Application date
US5704240 A	19980106	US19960646462	19960508

Priority:

US19960646462 19960508

Probable Assignee: ALCOA INC

Assignee(s): (std): ALUMINUM CO OF AMERICA

Assignee(s): ALUMINUM COMPANY OF AMERICA ; ALCOA INC ; ALUMINUM CO

Inventor(s): (std): JORDAN CHARLES L