

72

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO



No. 06-074298- -00003-0000

Fecha: 2007-12-06 16:14:56 Dep. 2020 NUECREACION
Tra. 2 PATENTES Eve: 1 REGDEPOSITO
Aut. 332 PETICION Folios: 2

Clarke, Modet & C^o

COLOMBIA

SEÑORES
SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
DIVISIÓN DE NUEVAS CREACIONES
E.S.D

REF EXPEDIENTE No.: 06074298
PATENTE: DISPOSITIVO PARA SUJETAR UN MIEMBRO DE
CONEXIÓN A UNA MANIJA DE RECIPIENTE DE COCCIÓN
SOLICITANTE : LA TERMOPLASTIC F.B.M. – S.r.L.

ASUNTO: SOLICITUD ESTUDIO DE FONDO

DILIA RODRÍGUEZ D'ALEMAN, en mi condición de apoderada de la Sociedad solicitante, por el presente escrito atentamente solicito a Usted que habiéndose surtido la publicación de la presente solicitud, en la Gaceta de la Propiedad Industrial No.578 de fecha Julio 31 de 2007 y se proceda con el estudio de Fondo.

Para tal fin me permito anexar la tasa correspondiente.

Agradezco continuar con el presente trámite.

Señor Jefe,

DILIA RODRÍGUEZ D'ALEMAN

C.C. 41.654.882 Bogotá

p-811

73

73

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

NIT : 800176089-2

RECIBO OFICIAL DE CAJA : 07 - 87,036
FECHA : OCTUBRE 23 DE 2007

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
No. 06-074298-00003-0000
Dep. 2020 NUECREACION
Eve: 1 REGDEPOSITO
Folios: 2

***** CONSIGNACION *****

POSITANTE	TIPO PAGO	BANCO	CUENTA	No. PAGO	FECHA PGO	Vr. PAGO
CLARKE MODET Y CO. COLOMB	CONSIGNACION	BANCO POPULAR	050-00110-6	71030061	23/10/2007	26,261,000.00

***** CONCEPTO *****

CANT.	RENTISTICO	CONCEPTO	TOTAL CONCEPTO
1	50005-01-01	SOLICITUDES	
		85 EXAMEN DE PATENTABILIDAD DE INVEN	404,000.00
		TOTAL :	\$ 404,000.00

SON: CUATROCIENTOS CUATRO MIL PESOS

RESPONSABLE : _____

RECIBO DE CAJA APLICADO AL EXPEDIENTE No. _____

318

P811 2

24



Industria y Comercio
SUPERINTENDENCIA

74

DIVISIÓN DE NUEVAS CREACIONES

RADICACIÓN EXPEDIENTE No. 06 074298

EL EXTRACTO DE LA PRESENTE SOLICITUD DE **PATENTE DE INVENCION**

FUE PUBLICADO EN LA GACETA DE PROPIEDAD INDUSTRIAL No **578** DE

FECHA **31 DE JULIO DE 2007** EL TÉRMINO HÁBIL SEÑALADO POR LA LEY

EXPIRA EL **26 DE OCTUBRE DE 2007**

NOTA: Dentro del plazo de los seis (6) meses siguientes a partir de la fecha de publicación en la gaceta de Propiedad Industrial, deberá solicitar y cancelar el examen de patentabilidad so pena de que la solicitud caiga en abandono, de acuerdo con lo establecido en el Artículo 44 de la Decisión 486/2000.

SE PRESENTARON OPOSICIONES POR PARTE DE TERCEROS.

SI _____

NO X

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
DIVISI3N DE NUEVAS CREACIONES

2020
Bogot3, D.C.,

Abogada
Dilia Mar3a Rodr3guez D'A.
(Apoderada)

ASUNTO	Radicaci3n	06 -74 298
	Tr3mite	002
	Evento	001
	Actuaci3n	430
	Oficio	9531
	Folios	020

Patente de Invenci3n	☒	Patente de Modelo de Utilidad	☐
V3a Nacional	☐		
V3a PCT (fase nacional)	☐	Cap. I	☐
		Cap. II	☐
Solicitud Internacional n.º	_____		
Fecha de Presentaci3n Intrnl.	_____		

Como resultado del examen de fondo, realizado con fundamento en el art3culo 45 de la Decisi3n 486 de la Comisi3n de la Comunidad Andina, se le comunica:

1. Documentos estudiados

<u>Descripci3n:</u>	Folios 5 a 14 y 21 como se radic3 inicialmente
<u>Reivindicaciones:</u>	Folios 15 a 19 como se radic3 inicialmente
<u>Dibujos:</u>	Folios 22 a 24 como se radic3 inicialmente
<u>Prioridad:</u>	Folios 33 a 65; 2005-07-29, EP, 05425562

2. Objeto de la invenci3n

T3tulo de la solicitud: *Dispositivo para sujetar un miembro de conexi3n a una manija de un recipiente de cocci3n*, folio 1.

El objeto de la presente solicitud de patente de invenci3n consiste en suministrar un montaje para sujetar un miembro de conexi3n a una manija de un recipiente de cocci3n, que comprende un dispositivo que ocupa el extremo de una manija y

un miembro de conexión que se inserta sobre el dispositivo y que tiene un medio de preensamble en una cara y una zona de fijación en la cara opuesta, la cual, al ser empujada hacia el centro del miembro de conexión, asegura la manija, por que coopera con el medio de preensamble y con las cavidades adecuadas que tiene el dispositivo. Tanto el miembro de conexión como el dispositivo tienen forma ahusada, lo que contribuye al ajuste de los dos elementos.

El problema planteado en esta solicitud es satisfacer la necesidad de tener una conexión, entre la manija y el recipiente de cocción, que [sea atractivo y] tenga facilidad y rapidez de ensamble.

Para solucionar este problema técnico la solicitud en estudio proporciona un montaje que comprende: un miembro de conexión y un dispositivo, ubicado en el extremo del mango, que tiene, por una cara, un asiento donde se insertará un medio de preensamble y, por la cara opuesta, una cavidad que albergará una sección del miembro de conexión, que se dobla permanentemente para asegurar la manija al miembro de conexión.

Clasificación Internacional de Patentes (IPC): A47J 45/06

3. De la solicitud de Patente

Descripción (artículo 28 D. 486)

Durante el análisis del texto de la descripción y de las ilustraciones anexadas, se observaron los siguientes defectos:

- 1) Tanto el título o nombre de la invención como la reivindicación 1 (y sus dependientes) se refieren a un *dispositivo para sujetar un miembro de conexión a una manija*, pero dentro del texto de la descripción se divulga, más generalmente, un *ensamble de manija* -señalado en las figuras 1 y 2, folio 22, con el número de referencia (1)- que comprende: tanto el *dispositivo* (4) como el miembro de manija (3). Lo que se define dentro de la reivindicación 1, folio 15, también corresponde al ensamble, porque, según se desprende lo que se dice en la página 4, folio 8, el *dispositivo* (4) no incluye al miembro de conexión. Se anota que, dentro del texto de la descripción, no se vuelve a mencionar dicho dispositivo (4). Entonces, el solicitante debe hacer las modificaciones pertinentes, tanto dentro del título como dentro de las reivindicaciones, y, si es el caso, dentro del capítulo descriptivo, para ajustar lo que se reclama en la solicitud a lo que se divulga en ella.
- 2) En la página 5, folio 9, aparece por primera vez la expresión *y/o*. Al respecto, el *Diccionario panhispánico de dudas* de la Real Academia Española y de la Asociación de Academias de la Lengua Española, primera edición, octubre de 2005, página 681, dice:
y/o: Hoy es frecuente el empleo conjunto de las conjunciones copulativa y disyuntiva separadas por una barra oblicua, calco del inglés «and/or», con la intención de hacer explícita la posibilidad de elegir entre la suma o la alternativa de dos opciones: «Se necesitan traductores de inglés y/o francés». Se olvida que la conjunción 'o' puede expresar en español ambos valores conjuntamente.

El examinador ha subrayado la última frase porque es particularmente aplicable a este caso.

- 3) En la misma página 5, aparece por primera vez la expresión *una silla* (15) cuyo significado, según el Diccionario de la Real Academia Española (DRAE)

no corresponde al contexto. Se sugiere sustituirla por *un rebajo* (15) u otra expresión que se ajuste mejor a lo que el solicitante quiere decir.

4) En la misma página 5 aparece la expresión *recesos* (16) *que se unen mediante 2 paredes que se enfrentan 18 en forma cruzada al eje A* cuyo significado es oscuro. Se sugiere sustituirla por *un rebajo* (16) *que tiene dos paredes opuestas* (18), *transversales al eje A*, o por otra expresión que se ajuste mejor a lo que el solicitante quiere decir.

5) En la página 6, folio 10, se mencionan por primera vez los *bordes extremos* (25), (26). Al respecto, se observa que, en la figura 1, folio 22, el número de referencia (25) señala una ubicación cercana a la *porción biselada* (21) mientras que, en la figura 2, en el mismo folio, dicho número (25) señala hacia una ubicación longitudinalmente opuesta. Entonces, hay que hacer las correcciones pertinentes dentro del texto de la descripción o dentro de las figuras, para que lo que se predique de dicho número corresponda a lo ilustrado en las figuras. Se hace especial referencia a lo que se dice respecto al borde de extremo (25) en la página 9, folio 13.

6) En la misma página 6 aparece la expresión *tiene una sección cruzada interior que reduce a lo largo del eje A* que carece de sentido.

7) En la misma página 6 aparece la expresión *es un miembro de una pieza que corta desde la hoja de metal y tiene forma de hendidura* que carece de sentido.

8) En las páginas 6 y 7, folios 10 y 11, aparece la expresión *una banda de hendidura* que carece de sentido.

9) En la página 7, folio 11, aparece la expresión *La lengüeta* (32) *ranura dentro de la cavidad* (22) *para formar una etapa* (35) *que tiene la ranura* (34) que es ininteligible.

10) En la misma página 7, aparece la expresión *unido por uno o más ranuras* que carece de sentido porque las ranuras separan, no unen.

11) Un defecto similar al anterior se encuentra en la expresión *se une por dos ranuras* que aparece en la página 8, folio 12.

12) En la misma página 8 aparecen las expresiones *borde de extremo* (26), *la concavidad* (26) en las cuales se utiliza el mismo número de referencia para designar dos cosas diferentes, lo cual no es admisible.

- La descripción no cumple con los requisitos de claridad y divulgación completa, lo que dificulta o impide su comprensión y ejecución de acuerdo al Art. 28 de la Decisión 486

Reivindicaciones (artículo 30 D 486)

Durante el análisis del texto de las reivindicaciones se observaron los siguientes defectos:

1) Como se vio arriba, en una objeción respecto al título o nombre de la invención, la denominación *dispositivo* (4) que se encuentra en las reivindicaciones 1 a 11 no corresponde a lo que se está definiendo dentro de ella, porque el dispositivo (4) no incluye, por ejemplo, al miembro de conexión (3), como se puede observar fácilmente en la figura 1, folio 22, pero sí está incluido en la reivindicación 1, folio 15.

2) En la reivindicación 13, folio 18, aparece la expresión *definido por un sector* (39) *de la pared lateral* (30), *en cambio define por al menos una ranura...* que carece de sentido. Esta reivindicación 13, carece de definición por esta causa.

3) Lo reclamado en la reivindicación 19, folio 19, es sustancialmente similar a lo definido en la reivindicación 1, folio 15, por lo que se debe hacer una dependencia o una fusión entre ellas.

- Debe entenderse que las reivindicaciones dependientes de las reivindicaciones objetadas son, asimismo, objetadas, por razones análogas.
- Las reivindicaciones no cumplen con los requisitos de definición, claridad, concisión o sustento por la descripción de acuerdo al Art. 30 de la Decisión 486.

Se deben presentar, entonces, nuevos capítulos descriptivo y reivindicatorio, ambos completos, junto con un nuevo juego de dibujos, donde se hayan corregido todas las objeciones que se han hecho arriba. Esto con el fin de evitar -cuando solo se presentan algunas páginas sueltas corregidas- que el lector tenga que desplazarse desde un sitio a otro de la solicitud y luego regresar a donde estaba antes sin perder la ilación de la lectura, porque esto produce confusión y afecta negativamente la claridad de dichos capítulos.

Se le advierte al solicitante que las modificaciones sugeridas arriba podrían resultar inconducentes si se mantienen las objeciones a la patentabilidad que se insinúan adelante.

4. Determinación del Estado de la Técnica

- La fecha que se ha tenido en cuenta para determinar el Estado de la Técnica es la

Fecha de presentación de la solicitud prioritaria 2005-07-29

- Se realizó la búsqueda en el estado de la técnica de documentos relacionados con la solicitud teniendo en cuenta la fecha indicada; y durante la búsqueda de anterioridades se encontraron los siguientes documentos, que forman parte de la familia de patentes de la presente solicitud: Publicación US 2007/0201944 A1 del 2007-08-30; publicación EP 1 747 746 del 2007-01-31. Se anexa la copia de las primeras páginas de estos documentos junto con la copia del Informe de Búsqueda Europeo. También se encontraron los siguientes documentos que forman parte del estado de la técnica más cercano al objeto de la solicitud:

n.º	Documento	Título	Fecha de publicación
D1	Patente GB 178 028, cuyo titular es Joseph Holmes	«Improvements in or relating to saucepans, frying pans, and other culinary utensils»(Mejoras en, o relacionados con, cacerolas, sartenes y otros utensilios de cocina)	1922-04-13
D2	Publicación GB 2 105 576 A, cuyo inventor es Richard Michael Chambers	«Handle-mounting ferrule»(Una virola para montaje de manija)	1983-03-30
D3	Publicación GB 2 118 431, cuyo inventor es Richard Michael Chambers	«Handle mounting assembly»(Un montaje para manija)	1983-11-02

Se anexa la copia de las páginas pertinentes de estos documentos

NOTAS: No se realizaron las evaluaciones de los demás requisitos de patentabilidad, porque se hicieron algunas objeciones respecto a la definición, la claridad, la concisión y el sustento por la descripción de las reivindicaciones; esto es, no se pudo practicar un análisis comparativo, por ausencia de materia.

A pesar de lo anterior, con base en las enseñanzas de los documentos encontrados hasta ahoray con base en el Informe de Búsqueda Europeo cuya copia se anexa, se prevén objeciones respecto al nivel inventivo del objeto de la solicitud, porque el objeto de la solicitud sería el resultado obvio de combinar algunas de las enseñanzas del documento D1 con las del documento D2 o con las del documento D3 o bien las del documento D2 con las del documento D3, además, con los conocimientos normales de una persona del nivel medio en la técnica. No se encontró ningún aporte técnico significativo que implique un efecto sorprendente o inesperado, como tampoco se encontró que, con el objeto de la solicitud, se superase algún prejuicio de los expertos en el arte.

Teniendo en cuenta lo anterior, se le sugiere al solicitante que, si considera que el objeto de la solicitud reúne los requisitos para ello --en especial los determinados por el artículo 54 de la Decisión 344--, cambie la modalidad de su solicitud a patente de modelo de utilidad. De aceptar esta sugerencia, deberá expresarlo así y deberá realizar los ajustes que considere necesarios en el capítulo reivindicatorio para que no se encuentre ninguna objeción previsible --en el momento en que la Oficina examine su solicitud para verificar el cumplimiento de los requisitos, bajo esta nueva modalidad--.

Esta sugerencia se hace teniendo en cuenta lo dispuesto en el artículo 18 de la mencionada Decisión.

5. Conclusión:

Los requisitos de patentabilidad de la presente solicitud se encuentran afectados negativamente por la falta de claridad de la descripción y las reivindicaciones y por la falta de definición, de sustento y de concisión de estas últimas.

En cumplimiento del artículo 45 de la Decisión 486 de la Comisión de la Comunidad Andina, se le indica que debe dar respuesta dentro del término de sesenta días contados a partir de la fecha de notificación de la presente comunicación. En caso de no dar respuesta al presente requerimiento, o si a

pesar de la respuesta subsistieran los impedimentos para la concesión, se denegará la patente.

Notifíquese el presente oficio conforme a lo dispuesto en el número 5.2, letra e), del capítulo quinto del título primero de la Circular Única n.º 10 de 2001.


ALIX CARMENZA CÉSPEDES DE VERGEL
Jefe de División de Nuevas Creaciones

El anterior requerimiento fue notificado por fijación en lista, de fecha 20 AGO. 2009

CONCEPTO TÉCNICO n.º 2770	EXAMINADOR TÉCNICO Código n.º 202009
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US 20070201944A1

(19) **United States**
(12) **Patent Application Publication** (10) Pub. No.: **US 2007/0201944 A1**
Munari (43) Pub. Date: **Aug. 30, 2007**

(54) **DEVICE FOR FASTENING A CONNECTING MEMBER TO A HANDLE OF A COOKING VESSEL**

Publication Classification

(76) Inventor: **Marco Munari, Cardano Al Campo (IT)**

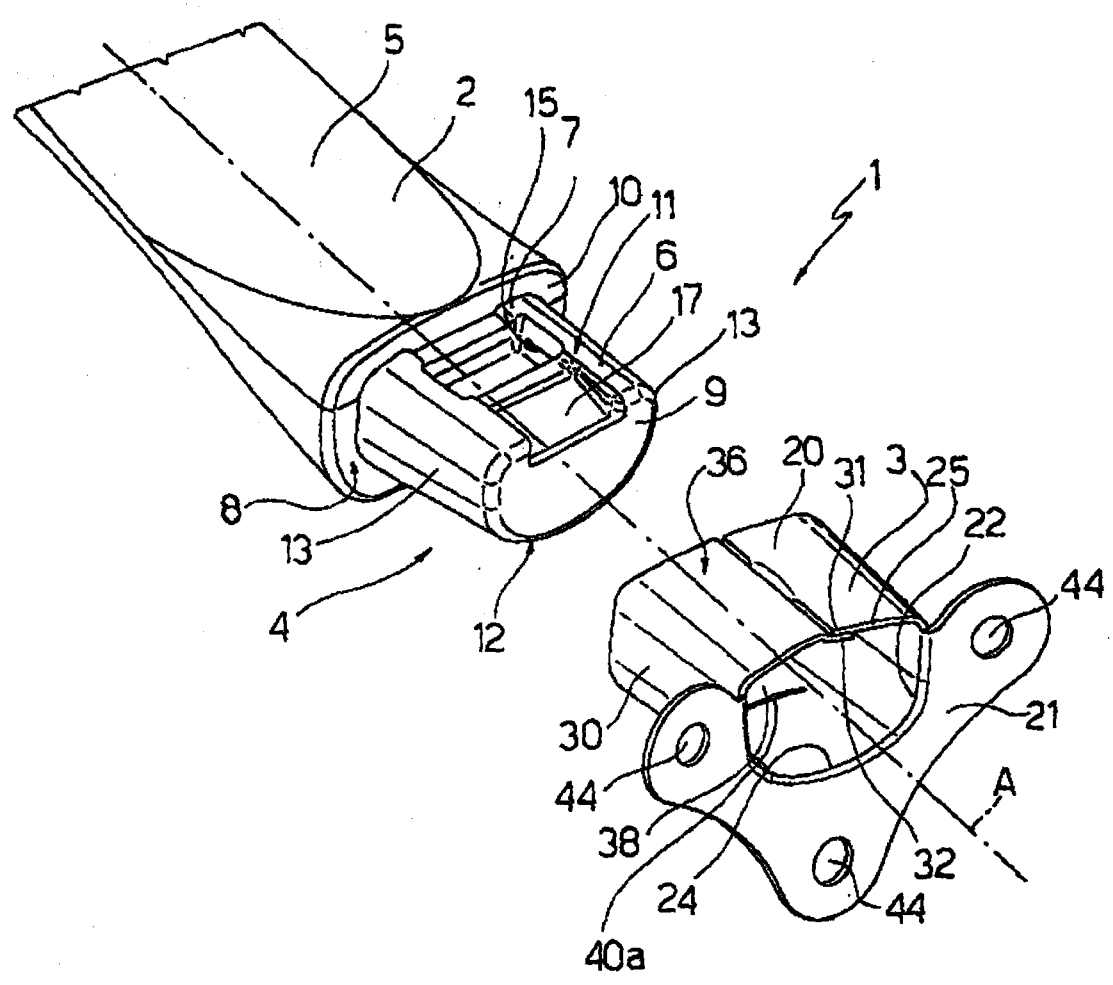
(51) Int. Cl. **F16B 7/10** (2006.01)
(52) U.S. Cl. **403/109.1**

Correspondence Address:
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Suite 240
6550 Rock Spring Drive
Bethesda, MD 20817 (US)

(57) **ABSTRACT**

There is provided a device for fastening a connecting member to a handle of a cooking vessel; the connecting member has a collar portion having an inner cavity into which a connecting portion of the handle is inserted; the collar portion is bounded by a lateral wall closed into a loop by means of two opposite end tabs joined to each other and defining at least one preassembly tooth cooperating with a seat formed in the connecting portion; and the connecting member has a fastening member, which is pressed and permanently deformed inside a recess on the connecting portion to secure the connecting portion inside the cavity.

(21) Appl. No.: **11/493,039**
(22) Filed: **Jul. 26, 2006**
(30) **Foreign Application Priority Data**
Jul. 29, 2005 (EP)..... 05425562.5



82



(11) EP 1 747 746 A1

(12) EUROPEAN PATENT APPLICATION

(43) Date of publication: 31.01.2007 Bulletin 2007/05 (51) Int Cl.: A47J 45/06 (2006.01)

(21) Application number: 05425562.5

(22) Date of filing: 29.07.2005

(84) Designated Contracting States: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR Designated Extension States: AL BA HR MK YU (71) Applicant: La Termoplastica F.B.M. S.R.L. 21010 Arsago Seprio (Varese) (IT)	(72) Inventor: Munari, Marco 21010 Cardano al Campo (IT) (74) Representative: Jorio, Paolo et al STUDIO TORTA S.r.l. Via Viotti, 9 10121 Torino (IT)
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(54) Device for fastening a connecting member to a handle of a cooking vessel

(57) There is provided a device (4) for fastening a connecting member (3) to a handle (2) of a cooking vessel; the connecting member (3) has a collar portion (20) having an inner cavity (22) into which a connecting portion (6) of the handle (2) is inserted; the collar portion (20) is bounded by a lateral wall (30) closed into a loop by means of two opposite end tabs (31, 32) joined to each other and defining at least one preassembly tooth (37) cooperating with a seat (15) formed in the connecting portion (6); and the connecting member (3) has a fastening member (38), which is pressed and permanently deformed inside a recess (16) on the connecting portion (6) to secure the connecting portion inside the cavity.

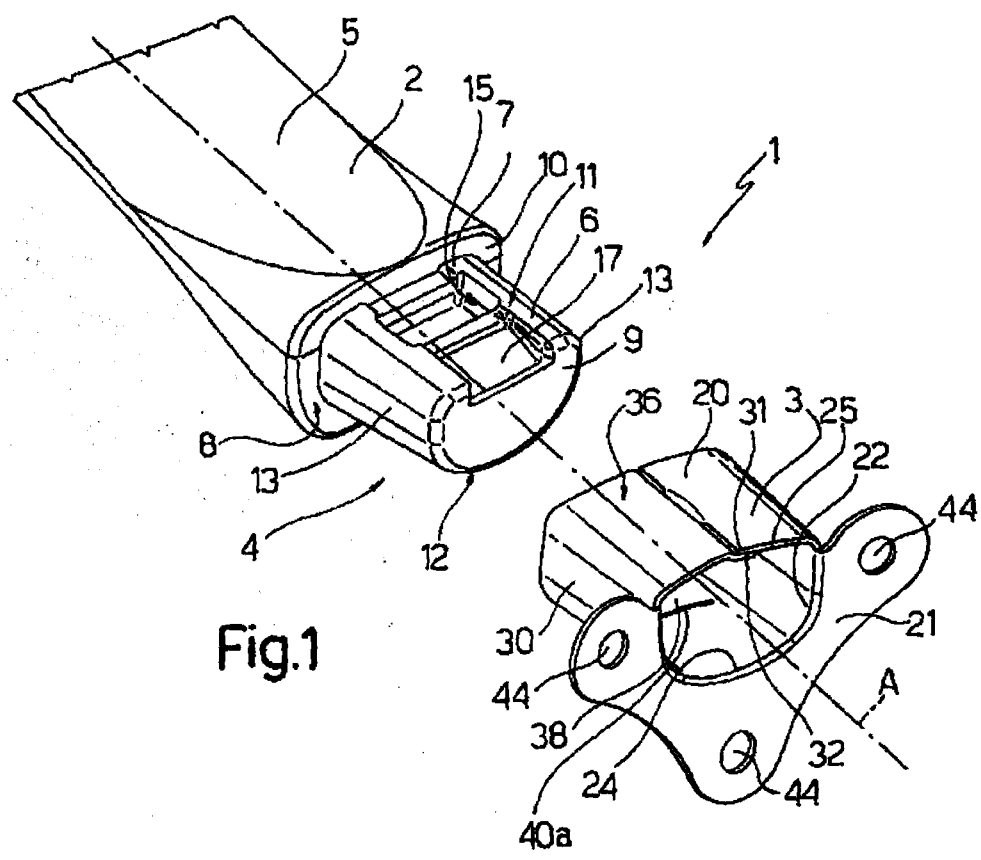


Fig.1

EP 1 747 746 A1

EP 1 747 746 A1



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 05 42 5562

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	GB 2 105 576 A (RICHARD MICHAEL * CHAMBERS) 30 March 1983 (1983-03-30) * page 1, line 38 - line 113; figures 1-5 *	1-3, 10-12, 18,19	A47J45/06
A	-----	4-9, 13-17	
X	GB 178 028 A (JOSEPH HOLMES) 13 April 1922 (1922-04-13) * page 2, line 38 - line 84; figures 1-5 *	1,2,12	
X	GB 2 118 431 A (RICHARD MICHAEL * CHAMBERS) 2 November 1983 (1983-11-02) * page 1, line 31 - line 79; figures 1-3 *	1,2,12	
			TECHNICAL FIELDS SEARCHED (IPC)
			A47J
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 5 January 2006	Examiner Lehe, J
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

3
EPO FORM 1505 (03-02) (PUBOCT)

84

PATENT SPECIFICATION



Application Date: May 30, 1921. 14,991/21.

178,028

Complete Left: Dec. 1, 1921.

Complete Accepted: Apr. 13, 1922.

PROVISIONAL SPECIFICATION.

Improvements in or relating to Saucepans, Frying Pans, and other
Culinary Utensils.

I, JOSEPH HOLMES, of Brondag, Llanelly, in the County of Carmarthen, a subject of the King of Great Britain, do hereby declare the nature of this invention to be as follows:—

This invention relates to saucepans, frying pans and other culinary utensils and has for its chief object to provide an improved method of making the handles thereof and of attaching them thereto.

According to my invention I construct the handle in two parts, one part of which is adapted to be attached to the utensil in any convenient manner and the other part which constitutes the handle is adapted to be attached to the first mentioned part by exerting external pressure thereon in order to form flutes or depressions therein. The aforesaid part which is attached to the utensil may be in the form of a U or similar shaped member the free ends of which constitute shoulders or flanges whereby it can be conveniently attached to the utensil by rivetting or otherwise. The said member may be made from a metal stamping and bent into the aforesaid shape. A hole may be made in the said stamping at the part where it is to be bent so as to facilitate the bending and also to permit any liquid enamel used in the process of enamelling to readily drain away prior to the cooking or firing operation. The said mem-

ber is formed externally with a depression or groove in one of its limbs. The other part which constitutes the handle may also be made from a metal stamping folded or bent over to form a flat tubular or otherwise hollow member to receive the aforesaid U shaped member, the folded or bent over edges of the said handle being preferably joined by beading the edges together with the bead inside the tubular member thus formed. The two parts are united by subjecting the aforesaid handle part to pressure in a suitable machine so that the metal of the handle part is forced or depressed into the space between the two limbs of the said U shaped member with the bead on the handle part lying in the aforesaid depression or groove in the U shaped member. By means of my invention the connection of the handle is more easily and rapidly made, the handle is cheaper to produce and the joint much stronger than heretofore, also the stability of the handle is increased.

Dated this 30th day of May, 1921.

HASELTINE, LAKE & Co.,
28, Southampton Buildings, London,
England, and
Park Row Building, 15, Park Row, New
York, N.Y., U.S.A.,
Agents for the Applicant.

[Price 1/-]

COMPLETE SPECIFICATION.

Improvements in or relating to Saucepans, Frying Pans, and other Culinary Utensils.

I, JOSEPH HOLMES, of Brondeg, Llanelly, in the County of Carmarthen, a subject of the King of Great Britain, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to saucepans, frying pans and other culinary utensils, and has for its chief object to provide an improved method of making the handles thereof and of attaching them thereto.

According to my invention I construct the handle in two parts, of which one part is adapted to be attached to the utensil in any convenient manner and the other part, which constitutes the handle, is adapted to be attached to the first mentioned part by exerting external pressure thereon in order to form flutes or depressions therein.

In order that the said invention may be clearly understood and readily carried into effect, the same will now be described more fully with reference to the accompanying drawings, in which:—

Figure 1 is a longitudinal section taken through the handle and Figure 2 is a section taken along the line 1-1 of Figure 1.

Figure 3 shews one part of the handle separately.

Figure 4 is an end view of Figure 3, and

Figure 5 shews the handle viewed from the end which is to be attached to the utensil.

A and B represent the two parts of the handle the part A being adapted to be attached to the utensil in any convenient manner and the part B constituting the handle. In the example shewn the part A is made from a metal stamping bent into the form of a U shaped member, the free ends of which constitute shoulders or flanges *a a* whereby said part can be attached to the utensil by rivetting for example; one of the limbs is formed externally with a depression or groove *a¹* (see Figure 4) for the purpose hereinafter explained. *a²* is a hole which is made in the stamping prior to its being bent into shape at the part where the stamp-

ing is to be bent so as to facilitate the bending, said hole also permitting any liquid enamel used in the process of enamelling to readily drain away. The part B which constitutes the handle is also made from a metal stamping folded or bent over to form a flat hollow member to receive the part A, the folded or bent over edge being joined by beading the edges together at *b* inside the hollow member thus formed. (See Figure 2.)

The two parts are united by inserting the part B over the part A and then subjecting the handle part B to pressure in a suitable machine so that the metal of the handle part B in the vicinity of the part A is forced or depressed into the space between the limbs of the part A, thereby forming the flutes *b¹ b¹* (see Figure 5), and with the said beaded edge *b* of the handle lying in the depression or groove *a¹* in the part A. Thus, the handle part B is securely united to the part A in a manner which prevents it being withdrawn therefrom or rotated thereon. By means of my invention the connection of the handle is more easily and rapidly made, the handle is cheaper to produce and the joint much stronger than heretofore, also, the stability of the handle is increased.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. A method of making handles for saucepans, frying pans and other culinary utensils which consists in constructing the handle in two parts, of which one part is attached to the utensil in any convenient manner and the other part which constitutes the handle is attached to the first mentioned part by external pressure thereon to form engaging flutes or depressions therein.

2. A handle for a saucepan, frying pan or other culinary utensil, consisting of two parts, one part of which is in the form of a U shaped member having flanges whereby it can be attached to the utensil and the other part is in the form of a hollow member adapted to fit over

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[This Drawing is a full-size reproduction of the Original.]

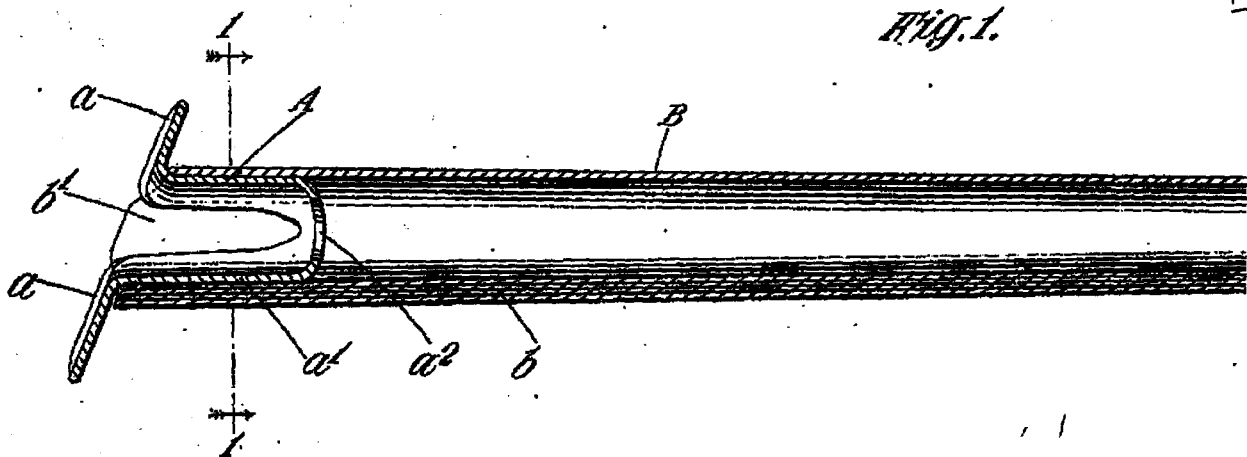


Fig. 1.

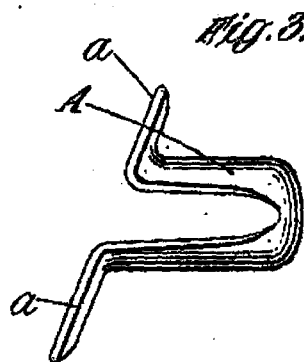


Fig. 3.

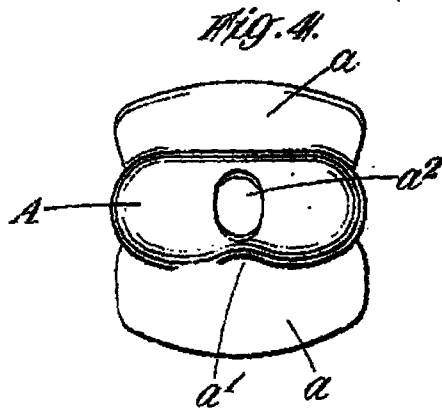


Fig. 4.

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Fig. 1.

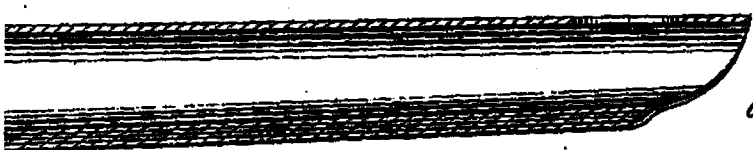


Fig. 2.

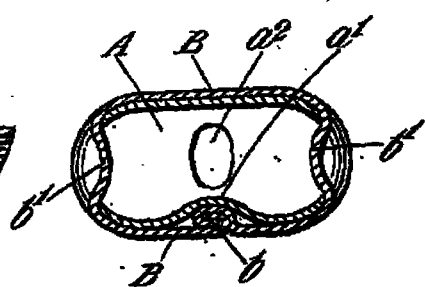


Fig. 4.

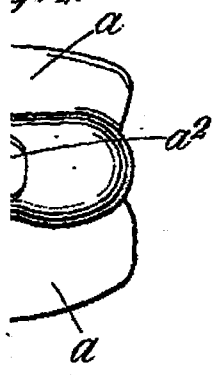
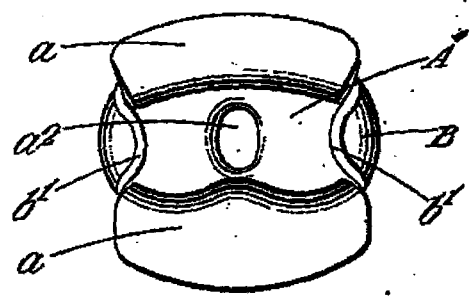


Fig. 5.



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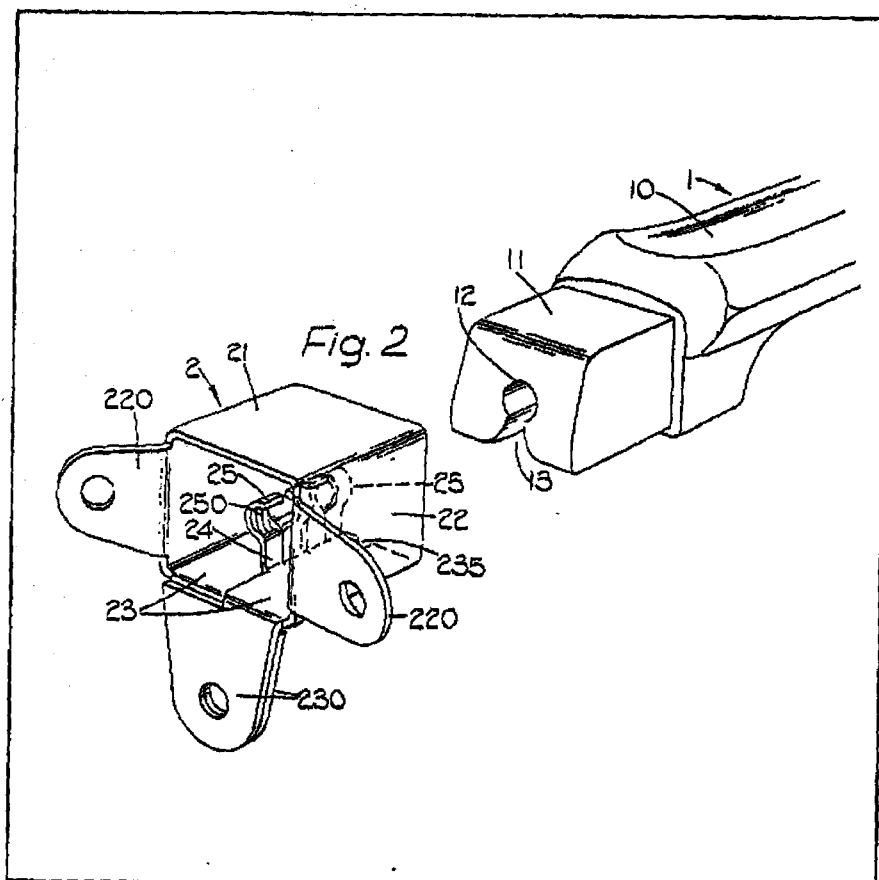
(12) **UK Patent Application** (19) **GB** (11) **2 105 576 A**

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(64) **Handle-mounting ferrule**

(57) A saucepan or like handle mounting is provided by a ferrule (2) of hollow or box section which receives the mounting end part (11) of a handle (1), the ferrule having an internally threaded formation (25,250) supported therein and which is received by a slotted bore (12,13) in the handle end part (11). The internal threaded formation (25,250) receives a screw for securing the end part (11) in the ferrule (2) and is shown provided by lugs (24) pressed up within the ferrule (2) and having

substantially semi-circular end parts (25) which are internally threaded (at 250) to provide the internally threaded formation (25,250). The end parts (25) are also shown alternately opposed for this purpose and may be arranged for slight axial displacement for obtaining tight engagement with the screw. The ferrule (2) complete with lugs (24, 25) and perforated ears (220, 230) for rivet mounting can be produced from a flat stamping or pressing which is bent to form the ferrule (2) with the internally arranged lugs (24, 25) and outwardly directed ears (220,230).



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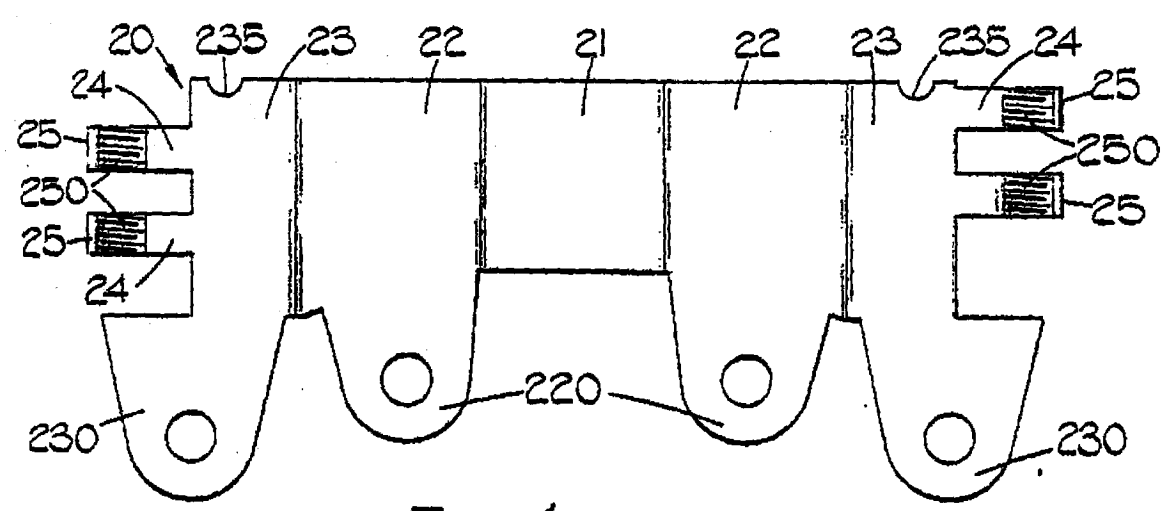


Fig. 1

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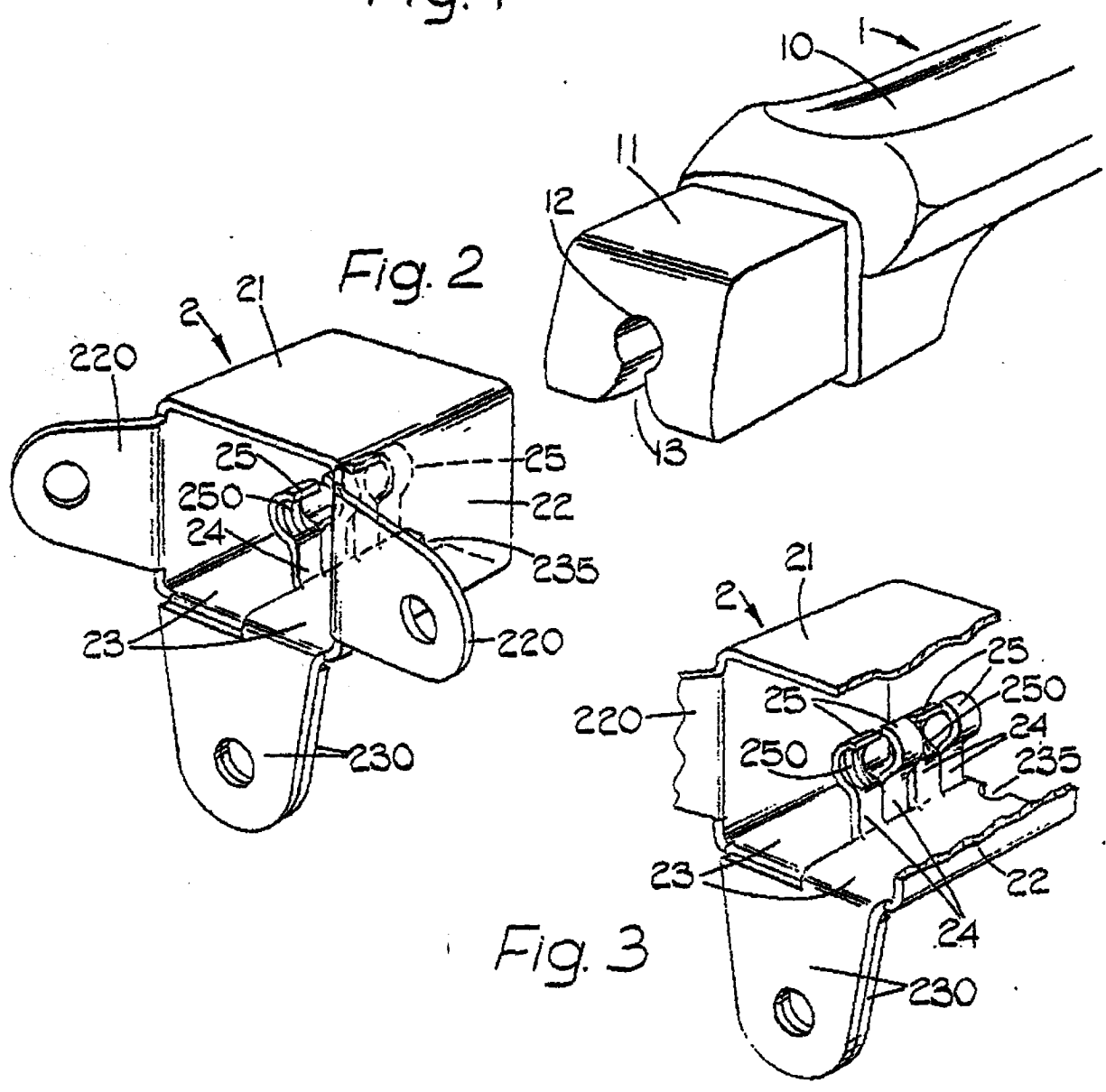
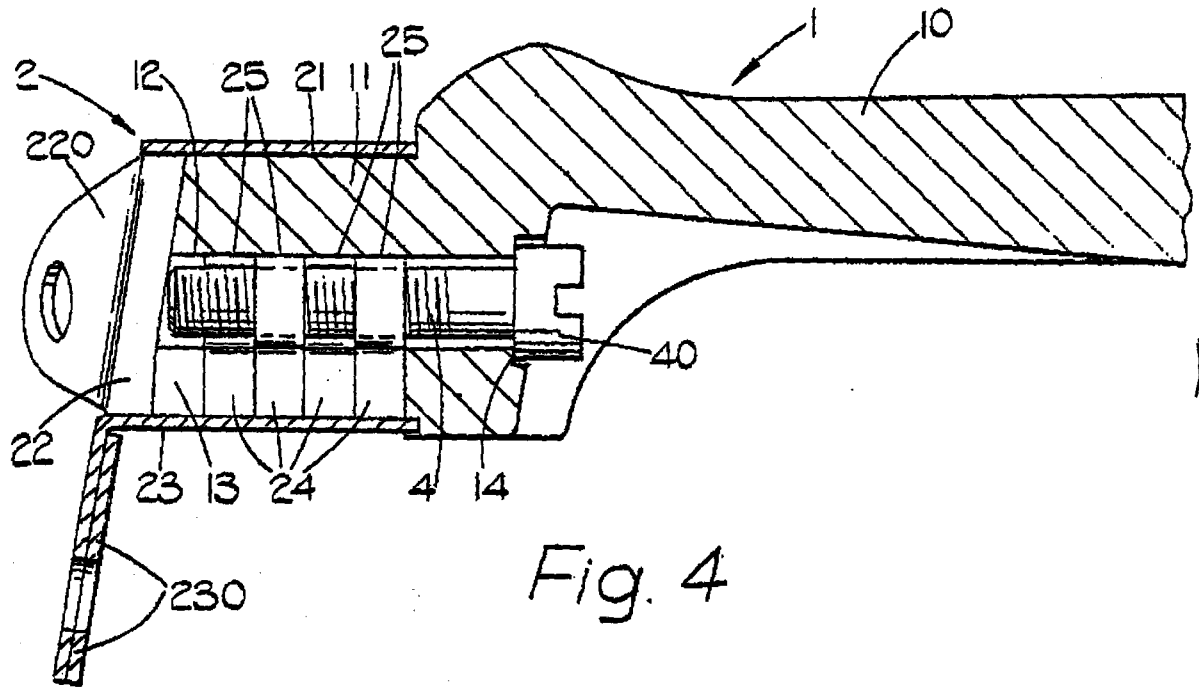


Fig. 2

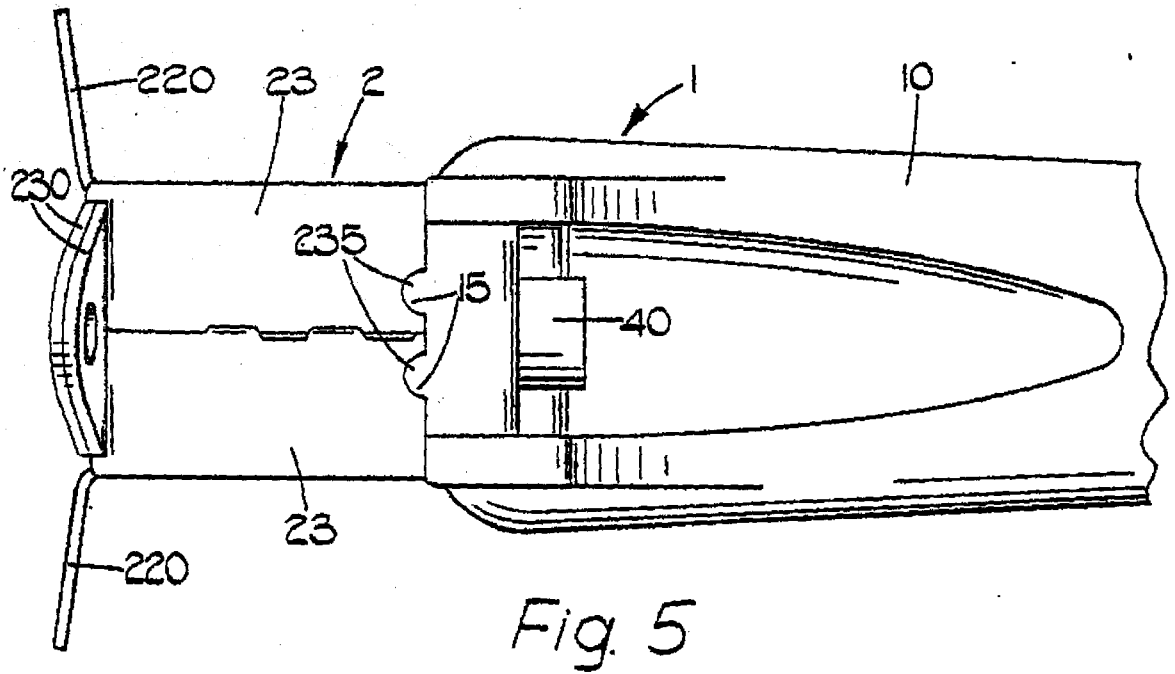
Fig. 3

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SPECIFICATION

Handle mounting assembly

The object of this invention is to provide an improved handle mounting assembly especially for the handles of such hollowware as saucepans, frying pans or similar utensils whereby a secure and safe mounting is simply obtained and which is capable of inexpensive manufacture with ease of fitting, e.g. by conventional riveted attachment to a saucepan or the like. This and other practical advantages will be apparent from the following disclosure.

According to the invention a handle mounting assembly is characterised by a ferrule adapted to be riveted or otherwise secured to the exterior side wall of a saucepan or similar utensil, said ferrule being provided with an internally threaded formation which is received by a bore therefor in the mounting end part of a handle when said mounting end part is inserted into the ferrule, the threaded formation being adapted to receive a screw for securing the mounting end part of the handle in the ferrule.

A practical example of the handle mounting is shown in the accompanying drawings in which:—

Figure 1 is a plan view of a pressing or stamping in the flat condition from which the ferrule is formed,

Figure 2 is a perspective view of the formed ferrule together with the mounting end part of the handle in the detached condition,

Figure 3 is a broken away perspective view of the ferrule,

Figure 4 is an axial plane cross section showing the handle secured in the ferrule, and

Figure 5 is an underside plan view of the assembly shown in Figure 4.

The handle 1 is shown of usual hand grip form moulded in suitable plastics material (but which may be of other suitable material such as wood) and is provided with a mounting end part 11 of generally square or similar rectangular cross section for insertion in the ferrule 2.

The ferrule 2 is formed from a pressing or stamping 20 shown in the flat condition in Figure 1 and which is formed by bending operations to provide the box section ferrule 2 shown in Figures 2 and 3. Thus the pressing provides the top 21 and sides 22 of the ferrule 2 and two half portions 23 of the base from which latter extend lugs 24 having substantially semi-circular end parts 25 in which an internal screw thread is formed at 250. The pressing 20 also includes perforated ears 220 and 230 which extend from the sides 22 and base portions 23 of the ferrule 2 for its attachment to the side of a saucepan or the like by riveting in the usual manner.

As will be seen in Figures 2 and 3 the ears 230 from the base half portions 23 overlap in the fully formed ferrule for added strength as regards mounting the ferrule 2 on the side of a saucepan.

As will also be seen in Figures 2 and 3 the lugs 24 from the base half portions 23 extend

upwardly within the ferrule 2 in a sequential manner alternately from each half portion 23. The arrangement is such that the semi-circular end portions 25 of the lugs 24 provide in effect a threaded bore, the thread formation 250 of the end portions 25 being phased to effectively provide continuity of such a threaded bore for receiving a screw 4 in the manner shown in Figure 4.

In order to obtain such thread formation the press tool for forming the pressing 20 includes threaded portions, e.g. provided by hardened screws which are angularly set so that appropriate thread formation 250 of each semi-circular end 25 is obtained for required continuity of the internal thread form of the resulting bore.

The mounting end part 11 of the handle is provided with a longitudinal bore 12 and is slotted at 13 at its underside so that the slot 13 communicates with the bore 12 such that when the mounting end part 11 is inserted in the ferrule 2 the series of semi-circular end parts 25 are received by the bore 12 and the slot 13 accommodates the lower or stem portions of the lugs 24.

When the semi-circular end portions 25 are received by the bore 12 they are supported by the latter against outward spreading so as to have a close fit about a screw 4 driven into the threaded bore so provided from the rear end of the bore 12 in the handle end part 11.

The close fit threaded engagement obtained is such that firm and tight mounting of the mounting end part 11 in the ferrule 2 can be obtained such that a washer between the screw head 40 and rear face 14 of the mounting end part 11 is not necessary.

The screw threaded engagement may be also such that slight axial displacement of the semi-circular ends 25 takes place against the resilience of the stem portions of the lugs 24 so that a degree of friction is introduced into the threaded engagement in order to obtain and maintain a tight engagement.

The rear edge of the base half portions 23 are shown notched at 235 so that the base of the formed ferrule 2 is provided with a pair of notches 235 for locating engagement with corresponding projections 15 formed on the underside of the handle mounting part 11 (see Figure 5).

In addition to obviating the need for a washer, the handle mounting according to this invention also avoids the need for a separate nut and separate mounting plate of the usual conventional assembly with resulting reduction in the number of components and assembly time and hence production costs. However, the advantage of screw fixing of the handle 1 is retained for tightening or removal purposes.

The invention includes not only the handle mounting assembly herein defined and described but the ferrule 2 itself and method of formation thereof.

CLAIMS

1. Handle mounting means characterised by a

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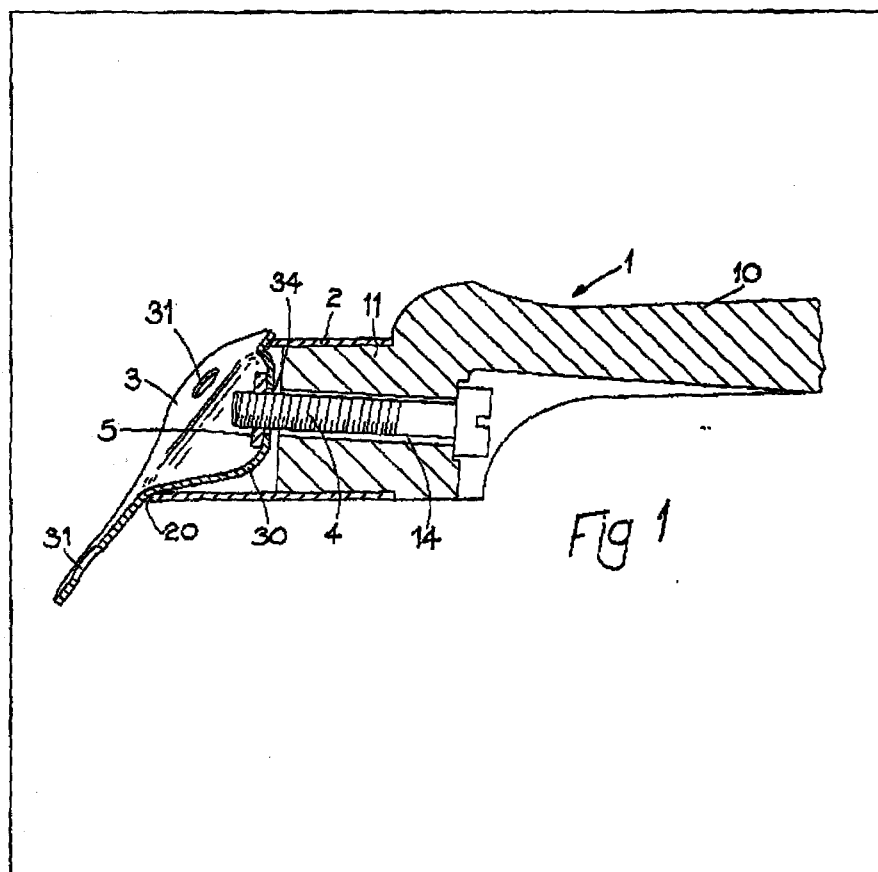
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(54) Handle mounting assembly

(57) A mounting plate (3) for riveting to the side of a saucepan has a raised part or boss (30) accommodating a nut (5) which receives a screw (4) passing through a hole (34) in the plate (3) for securing the handle (1) to the plate (3). As shown the nut (5) is of simple plain square form wholly accommodated within the raised part (30) against the inside face of the latter and is preferably secured against rotation by welding (53) to the plate (3). A pressed metal ferrule (2) about the mounting end (11) of the handle (1) is of box section for locating engagement about the raised part (30) and has its adjacent edges joined by a lap joint (22) which is secured together such as by spot welding.



The drawings originally filed were informal and the print here reproduced is taken from a later filed formal copy.

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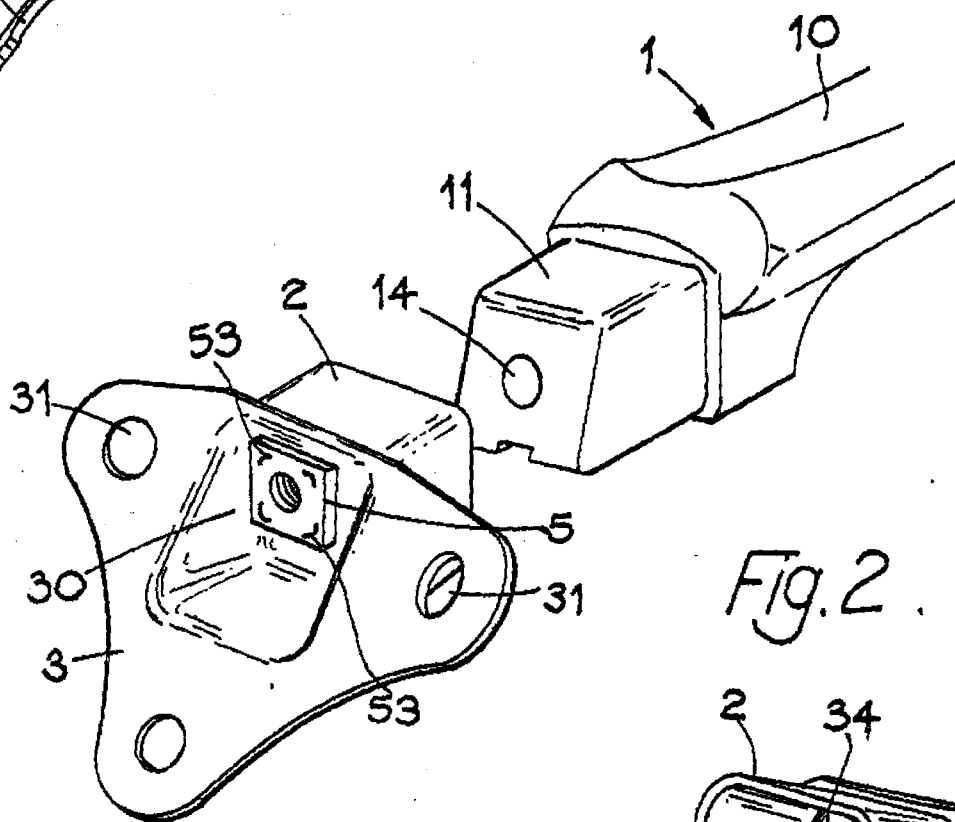
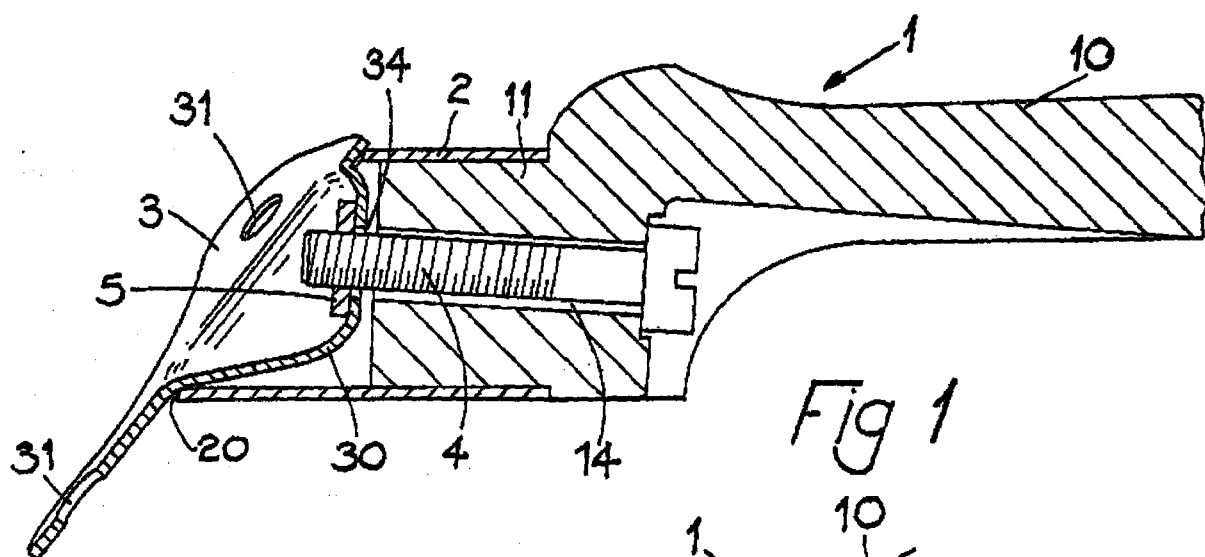
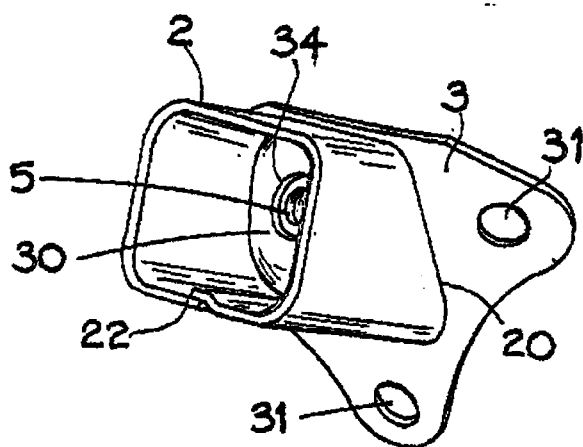


Fig. 3



SPECIFICATION

Handle mounting assembly

5 The object of this invention is to provide an improved handle mounting assembly especially for the handles of such hollow-ware as saucepans, frying pans or similar utensils whereby a secure and safe mounting is simply obtained and which is capable of inexpensive manufacture with ease of fitting, e.g. by conventional riveted attachment to a saucepan or the like. This and other practical advantages will be apparent from the following disclosure.

According to the invention a handle mounting assembly is characterised by a mounting plate adapted to be riveted or otherwise secured to the exterior side wall of a saucepan or similar utensil, said plate having a raised portion or boss accommodating within it a nut for receiving a screw passed through a hole in the raised part or boss in securing a handle to the plate.

A practical example of the handle mounting is shown in the accompanying drawings in which:-

Figure 1 is an axial plane section of the assembled handle mounting,

Figure 2 is a perspective view showing the inside face of the mounting plate and with the handle detached from it, and

Figure 3 is a further detail perspective view of the mounting plate and ferrule.

Part of the handle is shown at 1 and is of the usual handgrip form at 10 moulded in suitable plastics material (but which may be of other suitable material such as wood) and is provided with a mounting end part 11, e.g. of generally square or similar rectangular cross section for insertion in a ferrule 2 of corresponding box section form.

The forward end of the ferrule 2 locates about a pressed up raised portion or boss 30 of the mounting plate 3 which is adapted to be riveted at the holes 31 to the exterior side wall of a saucepan or similar utensil in the conventional manner. However it may be otherwise secured to the side wall.

The boss 30 is formed in relation to the plate 3 and the forward end 20 of the ferrule 2 is shown inclined as required for obtaining the usual inclination of the handle 1 in relation to the side wall of the utensil when the mounting end part 11 of the handle 1 is inserted in the ferrule 2 and secured by a screw 4 passing along a bore 14 in the mounting end part 11 and through a hole 34 in the boss 30 to engage a nut 5 positioned against the inside face of the boss 30.

In accordance with this invention the positioning of the nut 5 at the inside face of the boss 30 is such that there is a very high degree of resistance against pull out of the nut 5 through the boss 30 when the screw 4 is tightened to firmly secure the handle 1 in the ferrule 2 and to the plate 3.

As shown in Figure 2 a simple square form of nut 5 may be employed which is preferably non-rotatably secured such as by welding to the boss 30 for assembly purposes. Thus the nut 5 can be welded adjacent its corners at 53 to the boss 30 e.g. by the use of tubular welding electrodes.

In accordance with a further feature of the inven-

tion adjacent edges of the ferrule pressing when the latter is formed to the box section are secured together by a lap joint 22 at the underpart of the ferrule and which may be welded e.g. by spot welding. This simply and effectively provides a secure joint of neat appearance.

In addition to its high strength the mounting assembly provided by the plate 3 and nut 5 is of simple and cheap construction which can be quickly produced and which enables assembly time and hence production costs to be kept to a minimum. Furthermore the advantage of screw fixing of the handle 1 is retained for tightening or removal purposes.

CLAIMS

1. A handle mounting assembly for a hollow-ware handle characterised by a mounting plate adapted to be riveted or otherwise secured to the exterior side wall of a saucepan or similar utensil, said plate having a raised portion or boss accommodating within it a nut for receiving a screw passed through a hole in the raised part or boss in securing a handle to the plate.
2. A handle mounting assembly according to claim 1 wherein the nut is wholly accommodated within the raised part or boss against the inside face of the latter.
3. A handle mounting assembly according to claim 1 or 2 wherein the nut is secured against rotation such as by welding to the raised part or boss within the latter.
4. A handle mounting assembly for a hollow-ware handle substantially as herein described with reference to the accompanying drawings.
5. A handle mounting assembly according to any of the preceding claims wherein a ferrule about the handle for locating engagement about the exterior of the raised part or boss of the mounting plate consists of a metal pressing formed to a box section and of which adjacent edges thereof are jointed together by a lap joint.
6. A handle mounting assembly according to claim 5 wherein the lap joint is secured together such as by welding, e.g. spot welding.