

FP:(Pedrollo S.P.A.)

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APPLICANT_NAME=PEDROLLO S.P.A.

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Machine translation

1. [WO/2012/156396](#) SUBMERGED MOTOR

WO - 22.11.2012

Int.Class [H02K 5/12](#) Appl.No PCT/EP2012/059000 Applicant PEDROLLO S.P.A. Inventor PEDROLLO, Silvano

The submerged motor comprises an external case [2] having a tubular shape inside which is coaxially inserted an electric motor unit [3]. Closure means [10, 20] are suitable to isolate a room for housing the motor unit [3] inside said case [2] from the fluid present outside the same case [2]. Said closure means [10, 20] comprise an upper occlusion member [20] suitable to peripherally engage the internal surface of said case [2] and axially provided with a tubular body [21] carrying, in its internal side, a thrust bearing rolling means [22] suitable to be blocked on an upper portion of said motor shaft [4] to absorb the axial thrusts on the same motor shaft [4].

2. [WO/2013/010952](#) ELECTROPUMP

WO - 24.01.2013

Int.Class [F04D 5/00](#) Appl.No PCT/EP2012/063828 Applicant PEDROLLO S.P.A. Inventor PEDROLLO, Silvano

The electropump comprises a body [2] which shapes an internal cavity for an impeller [5] arranged coaxially to the inside of said cavity. A motor unit [10] is axially associated with the body [2] and is provided with a motor shaft [11] suitable to be coupled with said impeller [5] at a coupling portion [12]. The coupling portion [12] of the motor shaft [11] has a grooved profile [13] suitable to be coupled with a correspondent grooved housing [15] of said impeller [5].

3. [32358](#) POMPE ELECTRIQUE CENTRIFUGE

MA - 01.06.2011

Int.Class [F04D 13/08](#) Appl.No 33321 Applicant PEDROLLO S.P.A. Inventor PEDROLLO, Silvano

تضم المضخة الكهربائية الطاردة المركزية جسماً أنبوبياً خارجياً مشكلاً على الأقل فتحة امتصاص وفتحة إجماء؛ يتم إدراج وحدة ضخ بشكل محوري محورية داخل الجسم لامتصاص السائل من خلال فتحة الامتصاص ولنقل السائل الذي يتدفق من خلال فتحة الإجماء؛ يتم إدراج الوحدة المحرك بشكل محوري داخل الجسم وملامم لكي يكون متصلاً وظيفياً بوحدة الضخ؛ وسائل إغلاق ملائمة لعزل حجرة استقبال للوحدة المحرك للسائل الذي تضخه المضخة والسائل خارج الجسم.

4. [2617141](#) UN DISPOSITIVO PARA CONTROLAR EL ARRANQUE Y LA PARADA DE UN MOTOR ELÉCTRICO DE UNA BOMBA MOTORIZADA

ES - 15.06.2017

Int.Class [F04D 15/02](#) Appl.No 15169153 Applicant Pedrollo S.p.a. Inventor PEDROLLO, Silvano5. [20120070319](#) SUBMERGED PUMP WITH PROTECTED ELECTRICAL CABLES

US - 22.03.2012

Int.Class [F04B 17/03](#) Appl.No 13272026 Applicant Pedrollo Silvano Inventor Pedrollo Silvano

The present invention concerns a submerged pump with electrical cables external of the cylindrical lateral wall wherein the protection means, conformed for the lodging of said cables, are predisposed to be restrained to the pump body by means of quick fixing devices associable to bayonet sliding triggers for quick and stable locking and releasing, between said means of protection and the lateral wall of the pump, with possibly interposed fixed lantern elements and a resilient protection band as a suction filter.

6. [20120195775](#) SUBMERGED CENTRIFUGAL ELECTRIC PUMP

US - 02.08.2012

Int.Class [F04B 17/03](#) Appl.No 13500399 Applicant Silvano Pedrollo Inventor Silvano Pedrollo

The submerged centrifugal electric pump comprises an external casing [2] comprising a first and a second tubular portion [5, 7] suitable to be connected coaxial to one another, a pumping unit [3] inserted axially in the first portion [5] of the casing [2] to suction a liquid through a suctioning opening [101] and transfer the liquid in outlet through a discharge opening [11], and a motor unit [4] inserted in the second tubular portion [7] of the casing [2] and provided with a motor shaft [15] suitable to be connected in use to the pumping unit [3]. The centrifugal electric pump comprises means [19] for fixing the axial position of the motor shaft [15] interposed between the motor unit [4] and the pumping unit [3]. The fixing means [19] comprise an occlusion member [20] having an elastic material portion [23] suitable to engage the internal surface of the casing [2], a support body [22] suitable to be axially linked to the occlusion member [20] and a fastening member [21] suitable to be associated with the occlusion member [20] to perform the radial expansion of the elastic material portion [23].

7. [WO/2011/042862](#) SUBMERGED CENTRIFUGAL ELECTRIC PUMP

WO - 14.04.2011

Int.Class [F04D 13/08](#) Appl.No PCT/IB2010/054499 Applicant PEDROLLO S.P.A. Inventor PEDROLLO, Silvano

The submerged centrifugal electric pump comprises an external casing [2] comprising a first and a second tubular portion [5, 7] suitable to be connected coaxial to one another, a pumping unit [3] inserted axially in the first portion [5] of the casing [2] to suction a liquid through a suctioning opening [101] and transfer the liquid in outlet through a discharge opening [11], and a motor unit [4] inserted in the second tubular portion [7] of the casing [2] and provided with a motor shaft [15] suitable to be connected in use to the pumping unit [3]. The centrifugal electric pump comprises means [19] for fixing the axial position of the motor shaft [15] interposed between the motor unit [4] and the pumping unit [3]. The fixing means [19] comprise an occlusion member [20] having an elastic material portion [23] suitable to engage the internal surface of the casing [2], a support body [22] suitable to be axially linked to the occlusion member [20] and a fastening member [21] suitable to be associated with the occlusion member [20] to perform the radial expansion of the elastic material portion [23].

8. [S2006000036](#) PROTECTOR PARA VENTILADOR DE MOTORES ELECTRICOS

DO - 15.01.2008

Int.Class Appl.No 2006000036 Applicant PEDROLLO S.P.A. Inventor SILVANO PEDROLLO

9. **S2006000047 BOMBA ELECTRICA**

DO - 31.03.2008

Int.Class Appl.No 2006000047 Applicant PEDROLLO S.P.A. Inventor SILVANO PEDROLLO

10. **WO/2010/118786 SUBMERGED PUMP WITH PROTECTED ELECTRICAL CABLES**

WO - 21.10.2010

Int.Class F04D 13/08 Appl.No PCT/EP2009/059855 Applicant PEDROLLO S.p.A. Inventor PEDROLLO, Silvano

The present invention concerns a submerged pump [1] with electrical cables external of the cylindrical lateral wall [20] wherein the protection means [2], conformed for the lodging of said cables, are predisposed to be restrained to the pump [1] body by means of quick fixing devices [4] associable to bayonet sliding triggers [5] for quick and stable blocking and releasing, between said means of protection [2] and the lateral wall [20] of the pump [1], with possibly interposed fixed lantern elements [6] and a resilient protection band [12] as suction filter.

11. **WO/2010/015977 CABLE CLAMPING DEVICE FOR SUBMERSIBLE PUMP**

WO - 11.02.2010

Int.Class F04D 13/08 Appl.No PCT/IB2009/053341 Applicant PEDROLLO S.P.A. Inventor PEDROLLO, Silvano

The chucking device for electric cables for submersible pumps comprises clamping means [18] of the electric cables [15a] suitable to be constrained to the body of a pump or the like through coupling means [17]. The clamping means [18] comprise a connector [25] suitable to be constrained to the coupling means [17] and a tear-resistant sleeve shaped clamping member [26], suitable to house a portion of at least one electric cable [15a] and to be brought by the connector laterally to a respective final length [31], so that the tear-resistant sleeve [26] is suitable to exercise with a respective edge of the final length [31] a compression onto the electric cable [15a] such to prevent the sliding through the sleeve [26] as reaction of the connector [25] to a traction acting on the electric cable [15a].

12. **WO/2009/125363 CENTRIFUGAL ELECTRIC PUMP**

WO - 15.10.2009

Int.Class F04D 13/08 Appl.No PCT/IB2009/051491 Applicant PEDROLLO S.P.A. Inventor PEDROLLO, Silvano

The centrifugal electric pump comprises a tubular-shaped external casing configuring at least one suctioning opening and one discharge opening; a pumping unit axially inserted into the casing to suction a liquid through the suctioning opening and transfer the liquid flowing out through the discharge opening; a motor unit axially inserted into the casing and suited to be operatively connected to the pumping unit; closure means suited to insulate an accommodation compartment of the motor unit from the liquid supplied by the pumping unit and from the liquid present outside the casing.

13. **2552957 MOTOR SUMERGIDO**

ES - 03.12.2015

Int.Class H02K 5/12 Appl.No 12727321 Applicant Pedrollo S.p.a. Inventor PEDROLLO, Silvano

The submerged motor comprises an external case [2] having a tubular shape inside which is coaxially inserted an electric motor unit [3]. Closure means [10, 20] are suitable to isolate a room for housing the motor unit [3] inside said case [2] from the fluid present outside the same case [2]. Said closure means [10, 20] comprise an upper occlusion member [20] suitable to peripherally engage the internal surface of said case [2] and axially provided with a tubular body [21] carrying, in its internal side, a thrust bearing rolling means [22] suitable to be blocked on an upper portion of said motor shaft [4] to absorb the axial thrusts on the same motor shaft [4].

14. **2710709 NEDDYKKET MOTOR**

DK - 30.11.2015

Int.Class H02K 5/12 Appl.No 12727321 Applicant Pedrollo S.p.a. Inventor PEDROLLO, Silvano

The submerged motor comprises an external case [2] having a tubular shape inside which is coaxially inserted an electric motor unit [3]. Closure means [10, 20] are suitable to isolate a room for housing the motor unit [3] inside said case [2] from the fluid present outside the same case [2]. Said closure means [10, 20] comprise an upper occlusion member [20] suitable to peripherally engage the internal surface of said case [2] and axially provided with a tubular body [21] carrying, in its internal side, a thrust bearing rolling means [22] suitable to be blocked on an upper portion of said motor shaft [4] to absorb the axial thrusts on the same motor shaft [4].

15. **PI 97003549 METHOD FOR MANUFACTURING THE COMPONENT CONNECTING MOTOR AND PUMP, IN PERIPHERAL ELECTRIC PUMPS, AND COMPONENT THUS MANUFACTURED**

MY - 15.03.2012

Int.Class B22D 17/00 Appl.No PI 97003549 Applicant PEDROLLO S.P.A. Inventor PEDROLLO SILVANO

THE PRESENT INVENTION RELATES TO A METHOD FOR MANUFACTURING THE COMPONENT [1] CONNECTING MOTOR AND PUMP, IN PERIPHERAL ELECTRIC PUMPS, AND TO THE COMPONENT THUS MANUFACTURED. THE COMPONENT [1] COMPRISES A FRONT PART [2], WHICH IS LOCATED ON THE PUMP SIDE AND SUBJECT TO THE PUMPED FLUID AND MADE OF BRASS (OR BRONZE, STAINLESS STEEL OR OTHER MATERIAL), AND ALSO COMPRISES A REAR CHAMBER [3] LOCATED ON THE MOTOR SIDE AND MADE OF ALUMINIUM (OR PLASTIC OR OTHER MATERIAL). THE METHOD FOR MANUFACTURING THE CONNECTING COMPONENT, IN AN EMBODIMENT, COMPRISES THE FOLLOWING OPERATING STAGES: A FIRST STAGE INVOLVING MOULDING OF THE FRONT PART [2] WITH A MATERIAL SUCH AS BRASS, BRONZE, STAINLESS STEEL, OR THE LIKE; A SECOND STAGE INVOLVING PRESSURE-CASTING WITH ALUMINIUM, PLASTIC OR THE LIKE, FOR THE FORMATION OF THE REAR CHAMBER [3]; A THIRD STAGE INVOLVING JOINING OF THE FRONT PART [2] WITH THE REAR CHAMBER [3] BY MEANS OF THE INSERTION OF STUDS [5], WHICH ARE PRESENT IN THE FRONT PART [2], INSIDE CORRESPONDING HOLES [16] PRESENT IN THE CHAMBER [3]; A FOURTH STAGE INVOLVING RIVETING OF THE STUDS [15]. (FIG. 2)

16. **70601 METHOD FOR MANUFACTURING THE COMPONENT CONNECTING MOTOR AND PUMP, IN PERIPHERAL ELECTRIC PUMPS, AND COMPONENT THUS MANUFACTURED**

SG - 22.02.2000

Int.Class B22D 17/00 Appl.No 1997025977 Applicant PEDROLLO S.P.A. Inventor PEDROLLO SILVANO

17. **977/MUMNP/2012 SUBMERGED CENTRIFUGAL ELECTRIC PUMP**

IN - 13.09.2013

Int.Class F04D 13/08 Appl.No 977/MUMNP/2012 Applicant PEDROLLO S.P.A. Inventor PEDROLLO Silvano

The submerged centrifugal electric pump comprises an external casing [2] comprising a first and a second tubular portion [5, 7] suitable to be connected coaxial to one another, a pumping unit [3] inserted axially in the first portion [5] of the casing [2] to suction a liquid through a suctioning opening [101] and transfer the liquid in outlet through a discharge opening [11], and a motor unit [4] inserted in the second tubular portion [7] of the casing [2] and provided with a motor shaft [15] suitable to be connected in use to the pumping unit [3]. The centrifugal electric pump comprises means [19] for fixing the axial

position of the motor shaft [15] interposed between the motor unit [4] and the pumping unit [3]. The fixing means [19] comprise an occlusion member [20] having an elastic material portion [23] suitable to engage the internal surface of the casing [2], a support body [22] suitable to be axially linked to the occlusion member [20] and a fastening member [21] suitable to be associated with the occlusion member [20] to perform the radial expansion of the elastic material portion [23].

18. **2419642** SUBMERGED PUMP WITH PROTECTED ELECTRICAL CABLES

PT - 05.10.2016

Int.Class F04D 13/08 Appl.No 97812762 Applicant PEDROLLO S.P.A. Inventor SILVANO PEDROLLO

19. **WO/2010/015949** HANDLE FOR SUBMERSIBLE PUMPS

WO - 11.02.2010

Int.Class F04D 13/08 Appl.No PCT/IB2009/052914 Applicant PEDROLLO S.P.A. Inventor PEDROLLO, Silvano

A handle for submersible pumps and the like comprises a body [24] conforming a tubular portion [25] suitable to be associated to a closing unit [7] of the top of the pump [1] and gripping means [26] for gripping the same pump [1]. A clamping unit [23] is suitable to be housed inside the tubular portion [25] of the body [24] to provide a stable coupling of the body [24] to the pump [1] and comprises a clamping member [28] suitable to engage elastic connection means [27] borne by the body [24] inside the tubular portion [25], and drive means [36] suitable to provide axial translation of the clamping member [28] to produce radial elastic expansion of the elastic connection means [27] against a contrasting portion [29] integral with the closing unit [7] of the pump [1], in such a manner to obtain the mutual blocking between the body [24] of the handle [2] and the same pump [1].

20. **2599961** BOMBA SUMERGIDA CON CABLES ELÉCTRICOS PROTEGIDOS

ES - 06.02.2017

Int.Class F04D 13/08 Appl.No 09781276 Applicant Pedrollo S.p.a. Inventor PEDROLLO, Silvano

21. **2419642** DYKPUMPE MED BESKYTTEDE ELEKTRISKE KABLER

DK - 28.11.2016

Int.Class F04D 13/08 Appl.No 09781276 Applicant Pedrollo S.p.a. Inventor PEDROLLO, Silvano

The present invention concerns a submerged pump [1] with electrical cables external of the cylindrical lateral wall [20] wherein the protection means [2], conformed for the lodging of said cables, are predisposed to be restrained to the pump [1] body by means of quick fixing devices [4] associable to bayonet sliding triggers [5] for quick and stable blocking and releasing, between said means of protection [2] and the lateral wall [20] of the pump [1], with possibly interposed fixed lantern elements [6] and a resilient protection band [12] as suction filter.

22. **2295/MUMNP/2011** SUBMERGED PUMP WITH PROTECTED ELECTRICAL CABLES

IN - 10.08.2012

Int.Class F04D 13/08 Appl.No 2295/MUMNP/2011 Applicant PEDROLLO S.p.A. Inventor PEDROLLO Silvano

The present invention concerns a submerged pump [1] with electrical cables external of the cylindrical lateral wall [20] wherein the protection means [2] conformed for the lodging of said cables are predisposed to be restrained to the pump [1] body by means of quick fixing devices [4] associable to bayonet sliding triggers [5] for quick and stable blocking and releasing between said means of protection [2] and the lateral wall [20] of the pump [1] with possibly interposed fixed lantern elements [6] and a resilient protection band [12] as suction filter. [Fig. 1]

23. **2990653** A DEVICE FOR CONTROLLING A STARTING AND STOPPING OF AN ELECTRIC MOTOR OF A MOTOR-DRIVEN PUMP

PT - 13.03.2017

Int.Class F04D 15/02 Appl.No 151691532 Applicant PEDROLLO S.P.A. Inventor SILVANO PEDROLLO

24. **MX/A/2010/011114** CENTRIFUGAL ELECTRIC PUMP

MX - 22.11.2010

Int.Class F04D 13/08 Appl.No MX/a/2010/011114 Applicant PEDROLLO S.P.A. Inventor SILVANO PEDROLLO

The centrifugal electric pump comprises a tubular- shaped external casing configuring at least one suctioning opening and one discharge opening; a pumping unit axially inserted into the casing to suction a liquid through the suctioning opening and transfer the liquid flowing out through the discharge opening; a motor unit axially inserted into the casing and suited to be operatively connected to the pumping unit; closure means suited to insulate an accommodation compartment of the motor unit from the liquid supplied by the pumping unit and from the liquid present outside the casing.

25. **6270165** BOMBA ELECTRICA CENTRIFUGA

CO - 20.04.2011

Int.Class F04D 13/08 Appl.No 10139027 Applicant PEDROLLO S.P.A. Inventor SILVANO ,PEDROLLO

1.- Bomba eléctrica centrífuga del tipo que comprende: una envoltura o cubierta [2] de forma tubular, que configura por lo menos una abertura de succión [25] y una abertura de descarga [27]; una unidad de bombeo [4] insertada axialmente en la envoltura o cubierta [2] para succionar un líquido a través de la abertura de succión [25] y transferir el líquido que fluye hacia fuera, a través de la abertura de descarga [27]; una unidad de motor [3], insertada axialmente en la envoltura o cubierta [2], y adecuada para ser conectada operativamente a la unidad de bombeo [4]; medios de cierre [50, 80] adecuados para aislar un compartimiento [5] de acomodo de la unidad [3] de motor, contra el líquido suministrado por la unidad de bombeo [4] y por el líquido presente fuera de la envoltura o cubierta [2]; caracterizada porque los medios de cierre [50, 80] comprenden un miembro de oclusión [51, 81] provisto de por lo menos un aro anular [56, 86] hecho de material elástico como una pieza separada encima de la superficie externa del cuerpo del miembro de oclusión [51, 81] y adecuado para acoplarse circunferencialmente con la superficie interna de la envoltura o cubierta [2], estando el cuerpo del miembro de oclusión [51, 81] hecho de un material de diferente tipo, provisto de mayor rigidez, como el aro anular [56, 86]; y un miembro sujetador [52, 82] adecuado para ser asociado con el miembro de oclusión [51, 81] para efectuar la expansión radial del aro anular [56, 86], de tal manera que sujete dicho aro anular [56, 86] contra la superficie interna de la envoltura o cubierta [2].

26. **6541548** BOMBA CENTRÍFUGA ELÉCTRICA SUMERGIDA

CO - 16.10.2012

Int.Class F04D 13/08 Appl.No 12073293 Applicant PEDROLLO S.P.A. Inventor SILVANO ,PEDROLLO

La bomba centrífuga eléctrica sumergida comprende una caja externa [2] que comprende una primera porción tubular y una segunda porción tubular [5, 7], adecuadas para ser conectadas coaxiales entre sí; una unidad de bombeo [3] insertada axialmente en la primera porción [5] de la caja [2] para succionar un líquido a través de una abertura de succión [101] y transferir el líquido en la salida, a través de una abertura de descarga [11] ; y una unidad motora [4], insertada en la segunda porción tubular [7] de la caja [2] y provista de una flecha [15] de motor interpuesta entre la unidad motora [4] y la unidad de bombeo [3] . Los medios fijadores [19] comprenden un miembro de oclusión [20] que tiene una porción [23] de material elástico, adecuada para acoplarse con la superficie interna de la caja [2] ; un cuerpo de soporte [22], adecuado para ser conectado axialmente al miembro [20] de oclusión y un miembro sujetador [21], adecuado para ser asociado con el miembro de oclusión [20] para efectuar la expansión radial de la porción [23] de material elástico.

27. 2010000424 CENTRIFUGAL ELECTRIC PUMP

TN - 29.12.2011

Int.Class F04D 13/08 Appl.No P201000424 Applicant PEDROLLO S.P.A. Inventor PEDROLLO SILVANO

The centrifugal electric pump comprises a tubular- shaped external casing configuring at least one suctioning opening and one discharge opening; a pumping unit axially inserted into the casing to suction a liquid through the suctioning opening and transfer the liquid flowing out through the discharge opening; a motor unit axially inserted into the casing and suited to be operatively connected to the pumping unit; closure means suited to insulate an accommodation compartment of the motor unit from the liquid supplied by the pumping unit and from the liquid present outside the casing.

28. 2566756 DISPOSITIVO DE FIJACIÓN DE CABLES PARA BOMBA SUMERGIBLE

ES - 15.04.2016

Int.Class F04D 13/08 Appl.No 09786771 Applicant Pedrollo S.p.a. Inventor PEDROLLO, Silvano

The chucking device for electric cables for submersible pumps comprises clamping means [18] of the electric cables [15a] suitable to be constrained to the body of a pump or the like through coupling means [17]. The clamping means [18] comprise a connector [25] suitable to be constrained to the coupling means [17] and a tear-resistant sleeve shaped clamping member [26], suitable to house a portion of at least one electric cable [15a] and to be brought by the connector laterally to a respective final length [31], so that the tear-resistant sleeve [26] is suitable to exercise with a respective edge of the final length [31] a compression onto the electric cable [15a] such to prevent the sliding through the sleeve [26] as reaction of the connector [25] to a traction acting on the electric cable [15a].

29. 2146/MUMNP/2010 CENTRIFUGAL ELECTRIC PUMP

IN - 28.01.2011

Int.Class F04D 13/08 Appl.No 2146/MUMNP/2010 Applicant PEDROLLO S.P.A. Inventor PEDROLLO Silvano

The centrifugal electric pump comprises a tubular-shaped external casing configuring at least one suctioning opening and one discharge opening; a pumping unit axially inserted into the casing to suction a liquid through the suctioning opening and transfer the liquid flowing out through the discharge opening; a motor unit axially inserted into the casing and suited to be operatively connected to the pumping unit; closure means suited to insulate an accommodation compartment of the motor unit from the liquid supplied by the pumping unit and from the liquid present outside the casing.

30. 0001003678 BOMBA ELECTRICA

UY - 28.02.2007

Int.Class Appl.No 0001003678 Applicant PEDROLLO S.P.A. Inventor SILVANO PEDROLLO

31. 2006001482 CUBIERTA PROTECTORA DE VENTILADOR PARA MOTORES ELECTRICOS CONSTITUIDO POR UN CUERPO DE SECCION TRANSVERSAL CUADRADA Y LADO INFERIOR RECTO, CON LADOS CONVEXOS Y CON VERTICES REBAJADOS, CUYAS PAREDES LATERALES, SUPERIOR E INFERIOR SON CONVERGENTES HACIA ADELANE E INCLUYEN UN BORDE POSTERIOR PERIMETRAL.

CL - 16.02.2007

Int.Class Appl.No 2006001482 Applicant PEDROLLO S.P.A. Inventor PEDROLLO SILVANO

32. 2006002468 BOMBA ELECTRICA CONSTITUIDA POR CUERPO APAISADO DOTADO DE DELGADAS MOLDURAS LATERALES Y UN BLOQUE BISELADO SUPERIOR; LA CARA FRONTAL CONVEXA POSEE CINCO ESTRIAS TRANSVERSALES ALGO CURVADAS, Y UN RESALTE CILINDRICO CENTRAL, SIENDO EL DORSO DE ESTE, TRONCO CONICO INVERTIDO, AFECTADO POR TRES ABERTURAS RECTANGULARES Y DOS APOYOS.

CL - 18.05.2007

Int.Class Appl.No 2006002468 Applicant PEDROLLO S.P.A. Inventor PEDROLLO SILVANO

33. 20170107990 CENTRIFUGAL PUMP STAGE, CENTRIFUGAL PUMP AND USE OF A PUMP STAGE

US - 20.04.2017

Int.Class F04D 15/02 Appl.No 15128594 Applicant PEDROLLO S.p.A. Inventor Silvano PEDROLLO

The pump stage for a centrifugal pump comprises an impeller unit [10] having an axial hub and a diffuser unit [20] extended at a first face of said impeller unit [10]. The impeller unit [10] is supported floating inside the diffuser unit [20]. A shim ring [40] is associated with the impeller unit [10] and is sustained in sliding support on a washer [27] housed in a fixed position in a correspondent seat [26] of the diffuser unit [20] of an adjacent pump stage.

34. 201637031798 CENTRIFUGAL PUMP STAGE CENTRIFUGAL PUMP AND USE OF A PUMP STAGE

IN - 09.12.2016

Int.Class F04D 1/06 Appl.No 201637031798 Applicant PEDROLLO S.P.A. Inventor PEDROLLO Silvano

The pump stage for a centrifugal pump comprises an impeller unit [10] having an axial hub and a diffuser unit [20] extended at a first face of said impeller unit [10]. The impeller unit [10] is supported floating inside the diffuser unit [20]. A shim ring [40] is associated with the impeller unit [10] and is sustained in sliding support on a washer [27] housed in a fixed position in a correspondent seat [26] of the diffuser unit [20] of an adjacent pump stage.

35. 2714830 ETAPA DE BOMBA CENTRÍFUGO, BOMBA CENTRÍFUGA Y USO DE UNA BOMBA

ES - 30.05.2019

Int.Class F04D 1/06 Appl.No 14721501 Applicant Pedrollo S.p.a. Inventor PEDROLLO, Silvano**36. 2016002343 ETAPA DE BOMBEO CENTRIFUGO, PARA BOMBA CENTRIFUGA DE INMERSIÓN, QUE COMPRENDE UNA UNIDAD IMPULSORA CON UN CUBO AXIAL, UNA UNIDAD DIFUSORA, SIENDO DICHA UNIDAD IMPULSORA FLOTANTE DENTRO DE DICHA UNIDAD DIFUSORA Y UN ANILLO DE COMPENSACIÓN FIJO SOBRE DICHO CUBO AXIAL SOSTENIDO SOBRE UNA ARANDELA EN SOPORTE DESLIZANTE, CON SOPORTE DESLIZANTE EN ZONA ANULAR DEL IMPULSOR SOBRE EL DIFUSOR**

CL - 13.01.2017

Int.Class F04D 13/08 Appl.No 2016002343 Applicant PEDROLLO S.P.A. Inventor PEDROLLO SILVANO

LA ETAPA DE BOMBEO PARA UNA BOMBA CENTRIFUGA COMPRENDE UNA UNIDAD IMPULSORA QUE TIENE UN CUBO AXIAL Y UNA UNIDAD DIFUSORA EXTENDIDA EN UNA PRIMERA SUPERFICIE DE DICHA UNIDAD IMPULSORA, LA UNIDAD IMPULSORA SE SOPORTA FLOTANTE DENTRO DE LA UNIDAD DIFUSORA, UN ANILLO DE COMPENSACIÓN SE ASOCIA CON LA UNIDAD IMPULSORA Y SE SOSTIENE EN UN SOPORTE DESLIZANTE SOBRE LA ARANDELA ALOJADA EN UNA POSICIÓN FIJA EN UN ALOJAMIENTO CORRESPONDIENTE DE LA UNIDAD DIFUSORA DE UNA ETAPA DE BOMBEO ADYACENTE.

37. **WO/2015/145196** CENTRIFUGAL PUMP STAGE, CENTRIFUGAL PUMP AND USE OF A PUMP STAGE WO - 01.10.2015Int.Class F04D 1/06 Appl.No PCT/IB2014/060106 Applicant PEDROLLO S.P.A. Inventor PEDROLLO, Silvano

The pump stage for a centrifugal pump comprises an impeller unit [10] having an axial hub and a diffuser unit [20] extended at a first face of said impeller unit [10]. The impeller unit [10] is supported floating inside the diffuser unit [20]. A shim ring [40] is associated with the impeller unit [10] and is sustained in sliding support on a washer [27] housed in a fixed position in a correspondent seat [26] of the diffuser unit [20] of an adjacent pump stage.

38. **MX/A/2011/001391** HANDLE FOR SUBMERSIBLE PUMPS MX - 19.04.2011Int.Class F04D 13/08 Appl.No MX/a/2011/001391 Applicant PEDROLLO S.P.A. Inventor SILVANO PEDROLLO

A handle for submersible pumps and the like comprises a body [24] conforming a tubular portion [25] suitable to be associated to a closing unit [7] of the top of the pump [1] and gripping means [26] for gripping the same pump [1]. A clamping unit [23] is suitable to be housed inside the tubular portion [25] of the body [24] to provide a stable coupling of the body [24] to the pump [1] and comprises a clamping member [28] suitable to engage elastic connection means [27] borne by the body [24] inside the tubular portion [25], and drive means [36] suitable to provide axial translation of the clamping member [28] to produce radial elastic expansion of the elastic connection means [27] against a contrasting portion [29] integral with the closing unit [7] of the pump [1], in such a manner to obtain the mutual blocking between the body [24] of the handle [2] and the same pump [1].

39. **139/MUMNP/2011** HANDLE FOR SUBMERSIBLE PUMPS IN - 09.12.2011Int.Class F04D 13/08 Appl.No 139/MUMNP/2011 Applicant PEDROLLO S.P.A. Inventor PEDROLLO Silvano

A handle for submersible pumps and the like comprises a body [24] conforming a tubular portion [25] suitable to be associated to a closing unit [7] of the top of the pump [1] and gripping means [26] for gripping the same pump [1]. A clamping unit [23] is suitable to be housed inside the tubular portion [25] of the body [24] to provide a stable coupling of the body [24] to the pump [1] and comprises a clamping member [28] suitable to engage elastic connection means [27] borne by the body [24] inside the tubular portion [25], and drive means [36] suitable to provide axial translation of the clamping member [28] to produce radial elastic expansion of the elastic connection means [27] against a contrasting portion [29] integral with the closing unit [7] of the pump [1], in such a manner to obtain the mutual blocking between the body [24] inside the tubular portion [25], and drive means [36] suitable to provide axial translation of the clamping member [28] to produce radial elastic expansion of the elastic connection means [27] against a contrasting portion [29] integral with the closing unit [7] of the pump [1], in such a manner to obtain the mutual blocking between the body [24] of the handle [2] and the same pump [1].

40. **20180058455** FLOAT SWITCH DEVICE FOR SUBMERSIBLE PUMPS US - 01.03.2018Int.Class F04D 15/02 Appl.No 15556720 Applicant PEDROLLO S.P.A. Inventor Silvano PEDROLLO

The float switch device for submersible pumps, comprises a float member [2] constrained to a flexible cable [3] which is electrically connected to the driving member of the pump [10]. The flexible cable [3] is associated with a tilting support member [5], mounted in tilting manner outside the body of the pump [10] on a pin [6] with a substantially horizontal axis. The float member [2] is provided with a switch member [24] electrically connected to said flexible cable [3] and actuatable by actuator means [22] mobile as a function of the liquid level [L1, L2], for controlling the starting and stopping of the pump [10].

41. **WO/2015/008224** CENTRIFUGAL PUMP STAGE WO - 22.01.2015Int.Class F04D 1/06 Appl.No PCT/IB2014/063126 Applicant PEDROLLO S.P.A. Inventor PEDROLLO, Silvano

The centrifugal pump stage comprises an impeller unit [10] having an axial hub [11] suitable to be mounted of the motor shaft [2] of the pump. A diffuser unit [20] extends at a first face of the impeller unit [10] and an aspiration lid [30] associated with the diffuser unit [20] extends at a second face of the impeller unit [10]. The impeller unit [10] is supported floating at the diffuser unit [20] between a first position and a second position in which the axial hub [11] is abutting against respective locking rings [4] stiffly associated with the motor shaft [2] of the centrifugal pump, in order to be rotatable together with the same shaft [2].

42. **WO/2016/142898** FLOAT SWITCH DEVICE FOR SUBMERSIBLE PUMPS WO - 15.09.2016Int.Class F04D 15/02 Appl.No PCT/IB2016/051367 Applicant PEDROLLO S.P.A. Inventor PEDROLLO, Silvano

The float switch device for submersible pumps, comprises a float member [2] constrained to a flexible cable [3] which is electrically connected to the driving member of the pump [10]. The flexible cable [3] is associated with a tilting support member [5], mounted in tilting manner outside the body of the pump [10] on a pin [6] with a substantially horizontal axis. The float member [2] is provided with a switch member [24] electrically connected to said flexible cable [3] and actuatable by actuator means [22] mobile as a function of the liquid level [L1, L2], for controlling the starting and stopping of the pump [10].

43. **WO/2012/160096** FLOAT SWITCH DEVICE FOR SUBMERSIBLE PUMPS WO - 29.11.2012Int.Class F04D 15/02 Appl.No PCT/EP2012/059603 Applicant PEDROLLO S.P.A. Inventor ROCCA, Girolamo

A float switch device for submersible pumps comprises a floating member [2] linked to the body of a pump [10] for controlling the starting and the stopping of the same pump [10] according to the level of the fluid. The floating member [2] is rigidly constrained to a support swinging arm [3] assembled externally to said body of the pump [10].

44. **08819** ÓRGANO DE CONEXIÓN ENTRE UN MOTOR Y UNA BOMBA EN ELECTROBOMBAS PERIFÉRICAS AR - 23.02.2000Int.Class B22D 19/00 Appl.No P970103537 Applicant PEDROLLO S.P.A. Inventor

Un procedimiento para realizar el órgano de conexión [1] entre el motor y la bomba, en electrobombas periféricas, y el órgano así realizado. El órgano[1] comprende una parte anterior [2], dirigida hacia el lado de la bomba afectada por el flujo bombeado, realizada de latón [bronce, acero inoxidable u otro material] y, además comprende una cámara posterior [3], dirigida hacia el lado del motor, realizada de aluminio [plástico u otro material]. El procedimiento para realizar el órgano de conexión, en una forma de realización, comprende las siguientes etapas operativas: - una primera etapa de moldeado de la parte anterior [2] de material como por ejemplo latón, bronce, acero inoxidable u otro material; - una segunda etapa de fundición a presión de aluminio, plástico u otro material, para la formación de la cámara posterior [3]; - una tercera etapa de unión de la parte anterior [2] con la cámara posterior [3] previendo la introducción de estacas [15], presentes en la parte anterior [2], dentro de correspondientes orificios [16] presentes en la cámara [3]; - una cuarta etapa de operación de remachado de las estacas [15].

45. **017.270** METODE UNTUK PEMBUATAN KOMPONEN PENGHUBUNG ANTARA MOTOR DENGAN POMPA DI SEKELILING POMPA LISTRIK SERTA KOMPONEN YANG TERBUAT DARI METODE TERSEBUT ID - 17.12.1997

Int.Class Appl.No P00199702583 Applicant PEDROLLO S.P.A. Inventor

Penemuan ini mengenai suatu metoda untuk pembuatan komponen [1] penghubung motor dan pompa, di sekeliling pompa-pompa listrik, dan mengenai komponen yang dibuat dengan metoda tersebut. Komponen [1] termaksud terdiri atas suatu bagian depan [2] yang terletak pada sisi pompa dan mengarah ke fluida yang terpompa dan dibuat dari kuningan [atau perunggu, baja antikorasi atau bahan lainnya], dan juga meliputi satu rongga belakang [3] yang terletak pada sisi motor dan dibuat dari aluminium [atau plastik atau bahan lainnya]. Metoda untuk pembuatan komponen penghubung tersebut, dalam suatu perwujudannya, meliputi langkah-langkah operasi berikut: suatu langkah pertama yang meliputi pencetakan bagian depan [2] yang dibuat dari suatu bahan seperti kuningan, perunggu, baja anti karat, atau yang sejenisnya; suatu langkah kedua yang meliputi pencetakan dengan tekanan memakai bahan aluminium, plastik atau yang sejenisnya, untuk pembentukan rongga belakang [3]; suatu langkah ketiga yang meliputi penyambungan bagian depan [2] dengan rongga belakang [3] dengan cara pemasukan kancing-kancing [15], yang ada di bagian depan [2], ke dalam lobang-lobang [16] yang ada dalam rongga [3]; suatu langkah keempat yang meliputi pengelingan kancing-kancing [15].

46. **WO/2020/053906** SELF-PRIMING CENTRIFUGAL PUMP

WO - 19.03.2020

Int.Class F04D 9/06 Appl.No PCT/IT2019/050168 Applicant PEDROLLO S.P.A. Inventor NICOLIN, Luca

The self-priming centrifugal pump comprises a pump body [10] having an inner cavity [11] having a longitudinal axis [A] arranged in a horizontal position in use configuration which divides said inner cavity [11] into an upper zone [S] and a lower zone [L]; a suction opening [12] made on a front surface [13] of said pump body [10] at said upper zone [S]; a pumping chamber [20] associated with said pump body [10] and having at a frontal part thereof an axial inlet opening [21]; an impeller group [22] arranged inside said pumping chamber [20]; an ejector group [30] which extends into said inner cavity [11] of the pump body [10] and comprises an ejection nozzle [31] and an suction conduit [32] shaping a divergent profile, connected, at the wider section thereof to the inlet opening [21] of the pumping chamber [20]; an auxiliary suction conduit [34] arranged inside said inner cavity [11] of the pump body [10], at said upper zone [S], and adapted to put said suction opening [12] in direct communication with said inlet opening [21] of the pumping chamber [20].

47. **2258712** BOMBA CENTRIFUGA AUTOCEBANTE.

ES - 01.09.2006

Int.Class F04D 9/06 Appl.No E03425564 Applicant PEDROLLO S.P.A. Inventor VANDIN, ENRICO

Bomba centrífuga autocebante que comprende: - un cuerpo de bomba [2]; - una rueda móvil [8] motorizada instalada dentro del cuerpo de la bomba [2]; y - un difusor [13] situado después de la rueda móvil [8], con respecto a la dirección de flujo de un líquido dentro de la bomba [1], y que tiene una primera y una segunda pared [14 y 15] que definen entre ellas una cámara de difusión [16] la cual tiene, al menos principalmente, una extensión anular continua, dicha primera pared [14] estando orientada hacia dicha rueda móvil [8] y dicha segunda pared [15] estando orientada hacia la cámara de descarga [5] de la bomba [1], dicha primera pared [14] teniendo una pluralidad de aberturas [17] situadas a lo largo de su propia periferia circunferencial externa para permitir la entrada del flujo de líquido que sale de la rueda móvil [8] dentro de la cámara de difusión [16], y dicha segunda pared [15] teniendo al menos un orificio pasante [20] para poner en comunicación la cámara de difusión [16] con la cámara de descarga [5]; caracterizada por el hecho que dicha cámara de difusión anular [16] tiene un primer sector [18] y un segundo sector [19], uno detrás del otro, dicho primer sector [18] correspondiendo, durante el uso, a una parte superior de dicha cámara de difusión [16], y por el hecho que dicha segunda pared [15] substancialmente está cerrada en correspondencia de dicho primer sector [18], dicho orificio pasante [20] siendo obtenido en correspondencia del segundo sector [19], para poner en comunicación dicho segundo sector [19] de la cámara de difusión [16] con la cámara de descarga [5].

48. **WO/2014/080348** GEOTHERMAL HEAT EXCHANGER DEVICE

WO - 30.05.2014

Int.Class F24J 3/08 Appl.No PCT/IB2013/060280 Applicant PEDROLLO S.P.A. Inventor CAVALLI, Stefano

The geothermal heat exchanger device comprises a geothermal probe [10] having low enthalpy suitable to be inserted in vertical position in the ground and provided with at least one inlet piping [11] and one outlet piping [12] for the circulation of a heat exchange fluid provided with regulation means [40] which allow to regulate the heat exchange capacity. The exchanger device comprises an external pipe [20] of thermal conductive material, closed at the opposite ends, suitable to be inserted in a drilling made in the ground, and shaping a thermal chamber [21] which axially carries in its inside said geothermal probe [10]. The thermal chamber [21] is suitable to be filled with an interchangeable fluid, for varying the overall thermal impedance of the exchanger device.

