

Search query (1): [SP]: Pelton wheel with a wheel disk (1) and cuvettes (2) manufactured separately, which are detachably secured to the wheel disk (1), secured by one or more screws (5) or one or more bolts, characterized in that the screws or bolts are designed as extension screws (5) or extension bolts, wherein each cuvette (2) has one or more extension screws (5) or extension bolts that are arranged perpendicular to the axis of rotation of the disk of wheel (1) and secure to the wheel disk (1).

Results: 11

Search history

Search [SP]: Pelton wheel with a wheel disk (1) and cuvettes (2) manufactured separately, which are detachably secured to the wheel disk (1), secured by one or more screws (5) or one or more bolts, characterized in that the screws or bolts are designed as extension screws (5) or extension bolts, wherein each cuvette (2) has one or more extension screws (5) or extension bolts that are arranged perpendicular to the axis of rotation of the disk of wheel (1) and secure to the wheel disk (1). (Results 11)

1) Family number: 11019429 (ZA9800318A)

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Title: CARPET CLEANING COMPOSITIONS HAVING INCREASED LEVELS OF AMINOPOLYCARBOXYLIC ACIDS AS ANTI-RESOILING AGENTS

Priority: GB19970000792 19970116 WO1997US19217 19971024

Family:	Publication number	Publication date	Application number	Application date
	AU199749167 A1	19980807	AU19970049167	19971024
	BRPI9714290 A	20000425	BR1997PI14290	19971024
	CA2278026 AA	19990715	CA19972278026	19971024
	DE69728174 D1	20040422	DE19976028174	19971024
	DE69728174 T2	20050203	DE19976028174T	19971024
	EP0960181 A1	19991201	EP19970911899	19971024
	EP0960181 B1	20040317	EP19970911899	19971024
	ES2213819 T3	20040901	ES19970911899T	19971024
	GB2321252 A1	19980722	GB19970000792	19970116
	GB9700792 A0	19970305	GB19970000792	19970116
	WO9831776 A1	19980723	WO1997US19217	19971024
	ZA9800318 A	19980811	ZA19980000318	19980115

Probable Assignee: RECKITT BENCKISER GROUP PLC

Assignee(s):(std): RECKITT AND COLMAN INC ; RECKITT BENCKISER GROUP PLC ; RECKITT BENCKISER INC

Assignee(s): RECKITT BENCKISER INC WAYNE ; TYERECH MICHAEL RICHARD

Inventor(s):(std): TYERECH MICHAEL RICHARD ; TYERECH RICHARD

Inventor(s): MICHAEL RICHARD TYERECH

Agent(s): FB RICE; FB RICE PTY LTD; FETHERSTONHAUGH AND CO

Designated states: AL AM AT AU AZ BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GH GN GR HU IE IL IS IT JP KE KG KP KR KZ LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TR TT UA UG UZ VN ZW

International class (IPC 8-9): C11D1/00 C11D1/14 C11D1/72 C11D1/83 C11D1/94 C11D3/00 C11D3/20 C11D3/33 C11D3/37 C11D3/43 D06M13/165 D06M13/17 D06M13/213 D06M13/252 D06M13/298 D06M13/325 D06M13/342 D06M13/447 D06M13/453 D06M15/263 D06M15/277 D06M15/53 (Advanced/Invention); C11D1/14 C11D1/72 (Advanced/Non-invention); C11D1/00 C11D1/83 C11D1/88 C11D3/00 C11D3/26 C11D3/37 C11D3/43 D06M13/00 D06M15/21 D06M15/37 (Core/Invention); C11D1/02 C11D1/72 (Core/Non-invention)

International class (IPC 1-7): C11D1/00 C11D1/12 C11D1/14 C11D1/72 C11D1/83 C11D3/00 C11D3/10 C11D3/20 C11D3/33 C11D3/37 C11D3/39 C11D3/43 D06M13/342

CPC: C11D1/004 C11D1/006 C11D1/143 C11D1/146 C11D1/72 C11D1/83 C11D1/94 C11D3/0031 C11D3/33 C11D3/3765 C11D3/43 D06M13/165 D06M13/17 D06M13/213 D06M13/252 D06M13/298 D06M13/325 D06M13/342 D06M13/447 D06M13/453 D06M15/263 D06M15/277 D06M15/53

European class: C11D1/00C C11D1/00C2 C11D1/83 C11D1/94 C11D3/00B6 C11D3/33 C11D3/37C6F C11D3/43 D06M13/165 D06M13/17 D06M13/213 D06M13/252 D06M13/298 D06M13/325 D06M13/342 D06M13/447 D06M13/453 D06M15/263 D06M15/277 D06M15/53 M11D1/14B M11D1/14D M11D1/72

[Classification Explorer](#)

Cited documents: WO9816606 A1, WO9615308 A1, WO9514758 A1, US5395555 A, US5370919 A, US5338475 A, US4124542 A, EP0648834 A1,

Forward Citations: WO02059244, WO02059244, WO0024854, US6699825, US6693068, GB2385859, GB2385859, GB2343190, EP3208457, EP3208457, DE10007323, AU2002246993,

Abstract:

Aqueous flowable carpet cleaning composition comprises the following constituents: A) one or more surfactant compounds selected from anionic, nonionic and amphoteric surfactant compounds; B) an aminopolycarboxylic acid particularly EDTA salt as an resoiling inhibiting agent; C) an organic solvent; and, D) optionally, a stain repellency imparting composition especially a fluorine containing compound. These aqueous carpet cleaning compositions may include one or more further optional constituents including further organic solvents or cosolvents, further resoiling inhibiting agents, fragrances, preservatives, viscosity modifying agents such as thickening agents, preservatives, pH adjusting agents, pH buffers, agents for imparting water repellency to carpets and carpet fibers, and agents for imparting oil repellency to carpets and carpet fibers whose total weight generally comprise not more than about 20 percent wt., preferably not more than 10 percent by weight of the compositions described.

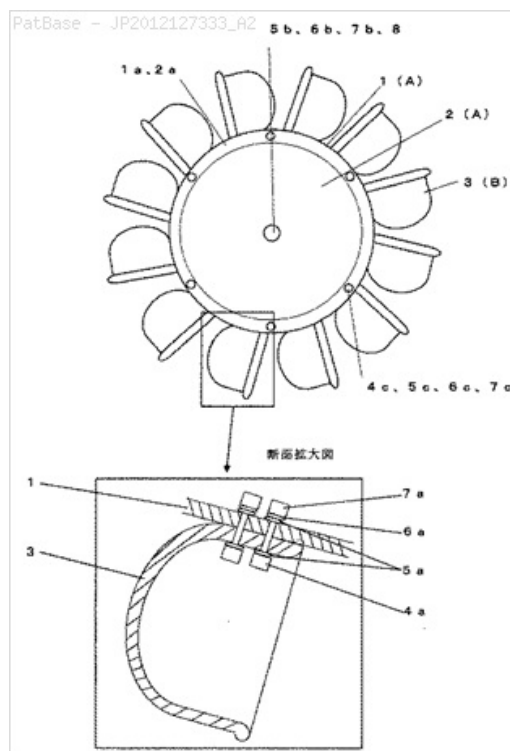
Title: PELTON WHEEL
Priority: JP20100294707 20101216
Family:

Publication number	Publication date	Application number	Application date
JP2012127333 A2	20120705	JP20100294707	20101216

Probable Assignee: YAMASHITA TOMOMI
Assignee(s):(std): YAMASHITA TOMOMI
Inventor(s):(std): YAMASHITA MAITO
International class F03B1/02 (Advanced/Invention)
(IPC 8-9):
CPC: Y02B10/50 Y02E10/223
[Classification Explorer](#)
Forward Citations: JP2014227986, EP3208457, EP3208457,

Abstract:

PROBLEM TO BE SOLVED: To solve a problem that the cost reduction of a conventional Pelton wheel is limited due to the complexity of its structure and assembly, and necessity of a machining device therefor, and the price of the wheel of a small power generation capacity is too high to be easily obtained by an individual or a small community.SOLUTION: In a Pelton wheel, cup-shaped buckets are mounted substantially at an equal spacing on outer walls of a substantially cylindrical wheel body in which the outer walls are substantially vertical, and a bottom side has a flat shape. The buckets may be mounted on the wheel body through assembly by **bolts and nuts**.



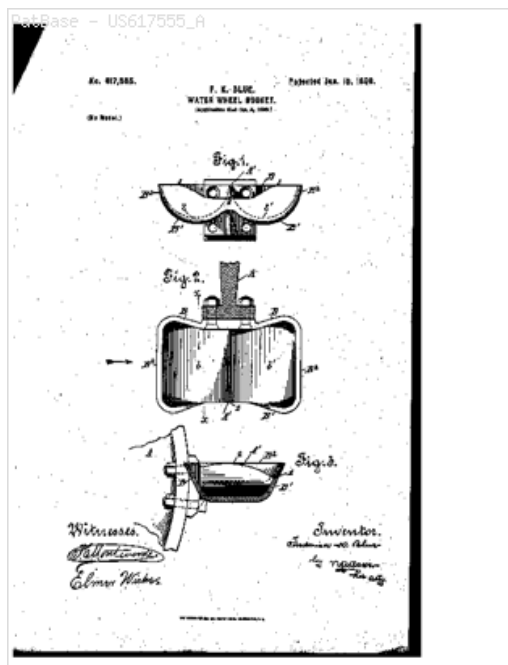
Family:

Publication number	Publication date	Application number	Application date
US617555 A	18990110		00000000

CPC: Y02E10/223 F03B1/02
European class: F03B1/02
US class: 416/197.00R 416/197B 416/197R

[Classification Explorer](#)

Forward Citations: US8672633, US7275914, US2011116930, US2004120821, EP3208457, EP3208457, EP2214939, AT518289, AT518289,



4) Family number: 18217680 (GB174768A)

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Title: Improvements in the construction of turbine wheels

Priority: GB19200031518 19201108

Family:

Publication number	Publication date	Application number	Application date
GB174768 A	19220208	GB19200031518	19201108

Probable Assignee: PAUL WERNER SEEWER

Assignee(s):(std): PAUL WERNER SEEWER

International class (IPC 8-9): F03B1/02 (Advanced/Invention);
F03B1/00 (Core/Invention)

International class (IPC 1-7): F03B1/02

CPC: F03B1/02 Y02E10/223

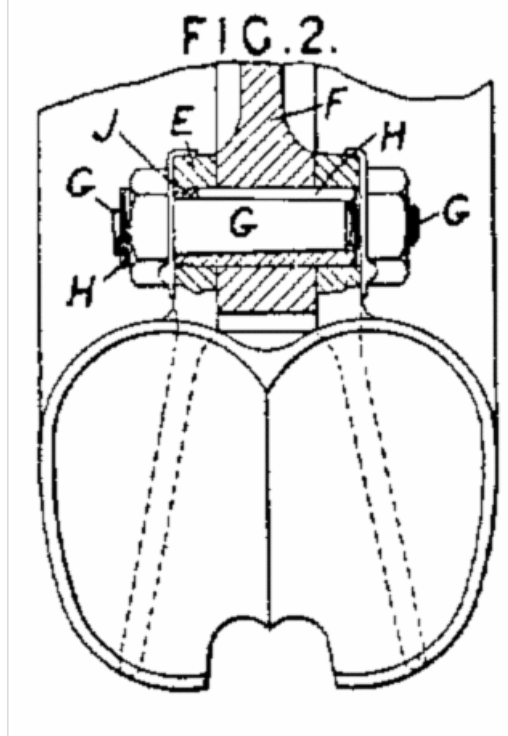
European class: F03B1/02 Y02E10/22B

[Classification Explorer](#)

Forward Citations: EP3208457, EP3208457, EP0843092,

Abstract:

174,768. Seewer, P. W. Nov. 8, 1920. Bolts.-The tail-piece of a turbine bucket is secured to a wheel F by a bolt passing through the lugs E of the tail piece and comprising an inner member G and an outer member H each having a threaded portion fitted with a nut and tapered respectively externally and internally. The outer member H is formed with a screw-cut J to provide a certain degree of flexibility.

**5) Family number: 22939760** (US3324953A)

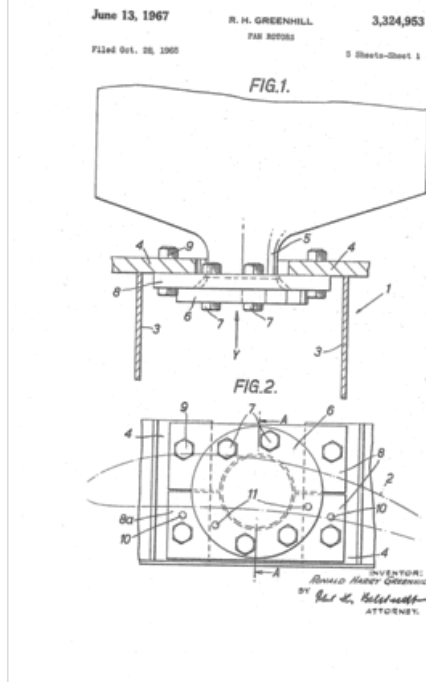
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Title: Fan rotors**Priority:** GB19640044202 19641029**Family:**

Publication number	Publication date	Application number	Application date
US3324953 A	19670613	US19650505542	19651028

Probable Assignee: AIRSCREW WEYROC LTD**Assignee(s):(std):** AIRSCREW WEYROC LTD**Assignee(s):** AIRSCREW WEYROC LIMITED**Inventor(s):(std):** GREENHILL RONALD H**International class (IPC 8-9):** F04D29/36 (Advanced/Invention);
F04D29/32 (Core/Invention)**International class (IPC 1-7):** F04D29/38**CPC:** F04D29/36**European class:** F04D29/36**US class:** 416/220A 416/220R[Classification Explorer](#)**Cited documents:** US3231022 A, GB367265 A,**Forward Citations:** US4187056, US3984194, US3594099, US3545884, US3470843, US2017241396, DE2719099, DE102006041349,**Abstract:**

(Claim 1) 1. A fan rotor comprising: a fabricated hub defining a plurality of blade positions, a pair of spaced lips associated with said hub at each blade position, a plurality of blades, each mounted by its root at one of said blade positions of the hub, and a plurality of setting plates, each blade root being secured to one setting plate and each setting plate being secured to the lips at the respective blade position, a location projection coacting between said setting plate and blade root at each blade position and a second locating projection coacting between the setting plate and lips at each blade position, said locating projections being integral with the parts with which they are associated and being disposed at a fixed predetermined position so as to determine a unique angular location of the blade, and said blade roots being incapable of direct connection to said lips.

**6) Family number: 2813761 (DE3938357A1)**

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Title: Water turbine Pelton wheel - has separate blades or buckets individually mounted using mortice arrangement

Priority: AT19880002837 19881121

Family:	Publication number	Publication date	Application number	Application date
	AT283788 A	19910715	AT19880002837	19881121
	AT394093 B	19920127	AT19880002837	19881121
	CH684605 A	19941031	CH19890004137	19891117
	DE3938357 A1	19900906	DE19893938357	19891117
	DE3938357 C2	19970306	DE19893938357	19891117

Probable Assignee: EFG TURBINEN UND KRAFTWERKSANL

Assignee(s):(std): EFG TURBINEN U KRAFTWERKSANL ; EFG TURBINEN UND KRAFTWERKSANL ; TURBINEN U KRAFTWERKSANLAGEN ; TURBINEN UND KRAFTWERKSANLAGEN

Assignee(s): TURBINEN UND KRAFTWERKSANLAGENBAU EFG ENERGIEFORSCHUNGS UND ENTWICKLUNGSGESELLSCHAFT M B H AND CO KG FELDKIRCHEN AT ; EFG TURBINEN UND KRAFTWERKSANLAGENBAU EFG ENERGIEFORSCHUNGS UND ENTWICKLUNGS GMBH AND CO KG ; EFG TURBINEN UND KRAFTWERKSANLAGENBAU ENERGIEFORSCHUNGS UND ENTWICKLUNGSGESELLSCHAFT M B H AND CO KG FELDKIRCHEN AT

Inventor(s):(std): BUCHELT BENNO DIPL ING

International class (IPC 8-9): F03B1/02 (Advanced/Invention); F03B1/00 (Core/Invention)

International class (IPC 1-7): F03B1/00 F03B1/02

CPC: F03B1/02 Y02E10/223

European class: F03B1/02 Y02E10/22B

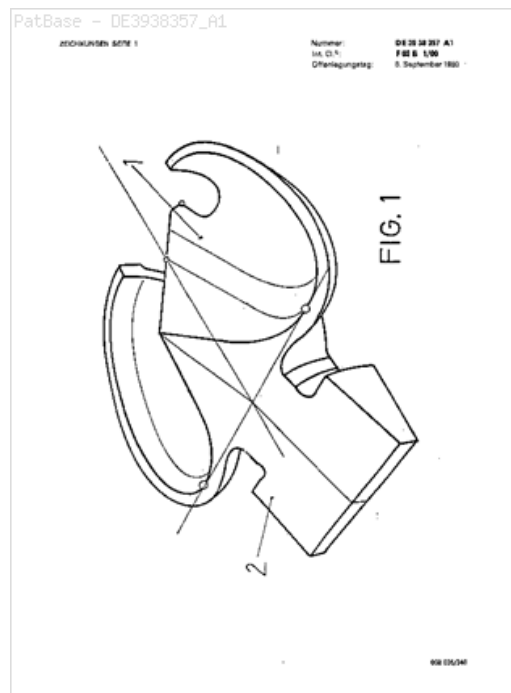
[Classification Explorer](#)

Cited documents: DE555900 A, DE244882 A, AT380078 B, AT244882 B,

Forward Citations: EP0902183, EP0900935, EP0882888, EP0843092, DE19619316, AT518289, AT405436,

Abstract:

The Pelton wheel consists of separate bowls buckets or cups (1) which are joined to the spoke wheel by mortices. The spoke wheel is centered between at least two wheel discs which have shoulders resting on the feet of a bowl. At certain points along the circumference of the spoke wheel, between the radial faces of adjacent feet of two bowls, there are two ball sleeve pairs of different dia., with ball seats, providing a certain amount of play for adjustment when tightened together by **tension bolts** pressing the balls in their seats. At other points there are bolts pulling together the faces of the spoke wheel, to transmit the moment. The feet of bowls are locked together by the first group of bolts. USE/ADVANTAGE - Pelton wheel construction ensures that each bowl can be correctly adjusted in position.



7) Family number: 66711863 (US2017241396A)

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Title: PELTON RUNNER

Priority: AT20160050110 20160218 EP20160205343 20161220 CL20170000404 20170217

Family:

Publication number	Publication date	Application number	Application date
AT518289 A1	20170915	AT20160050110	20160218
AT518289 B1	20180615	AT20160050110	20160218
CL20170000404 A1	20170908	CL20170000404	20170217
CN107091263 A	20170825	CN201710079740	20170118
CO20170000974 A1	20180810	CO20170000974	20170202
DE502016003354 D1	20190307	DE201650003354T	20161220
EP3208457 A1	20170823	EP20160205343	20161220
EP3208457 B1	20190206	EP20160205343	20161220
ES2723574 T3	20190829	ES20160205343T	20161220
IN201634044348 A	20170825	IN201634044348	20161226
PE13872017 A1	20170915	PE20170000224	20170216
TR201906352 T4	20190521	TR20190006352T	20161220
US2017241396 AA	20170824	US20170433172	20170215

Probable Assignee: ANDRITZ HYDRO GMBH

Assignee(s):(std): ANDRITZ HYDRO GMBH

Inventor(s):(std): LOETSCHER BENNO ; ISLER PASCAL ; LAIS STEFAN ; PASCAL ISLER ; BENNO LOETSCHER ; STEFAN LAIS

Agent(s): ESTUDIO CLARKE MODET AND CO CHILE LIMITADA; CAROLINA MERCEDES DAZA MONTALVO; SCHWEINZER FRIEDRICH; CARPINTERO MARIO; CEMEN KARABAG

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

International class (IPC 8-9): F01D5/34 F03B1/00 F03B1/02 F03B3/12 F16B13/04 (Advanced/Invention)

CPC: F16B13/04 F03B1/02 F03B3/128 F05B2230/60 F05B2230/80 F05B2260/30 Y02E10/223 Y02P70/525

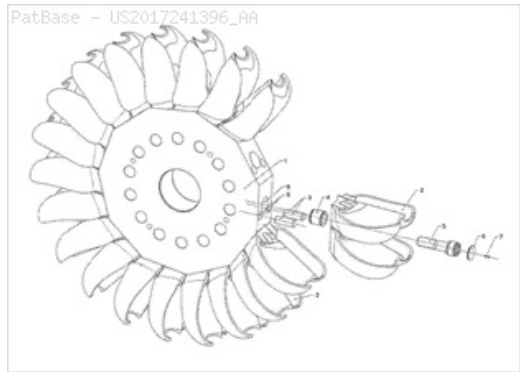
US class: 1/1 416/197B

[Classification Explorer](#)

Cited documents: US617555 A, US617555 A, US3324953 A, US1361467 A, US1361467 A, JP2012127333 A2, JP2012127333 A2, GB174768 A, GB174768 A, FR480562 A, FR480562 A, EP0960181, CH111442, AT96298 B, AT394093 B, AT33591 B,

Abstract:

A Pelton runner with a wheel disk and separately fabricated buckets (2), which may be cast or made from a solid block of material and secured detachably to the wheel disk (1), fastened by at least one screw (5) or at least one bolt. At least one screw or at least one bolt is designed as an expansion screw (5) or expansion bolt, where the expansion screw (5) or expansion bolt is subjected to controlled pre-stressing, and each bucket (2) has at least one expansion screw (5) or expansion bolt that is arranged perpendicular to the axis of rotation of the wheel disk (1) and secured to the wheel disk (1).



8) Family number: 18179876 (US1361467A)

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Title: Impact and reaction water-wheel

Priority: US19190297732 19190517

Family:	Publication number	Publication date	Application number	Application date
	US1361467 A	19201207	US19190297732	19190517

Probable Assignee: JOHN KINCAID

Assignee(s):(std): JOHN KINCAID

Inventor(s):(std): JOHN KINCAID

Inventor(s): KINCAID JOHN

International class (IPC 8-9): F03B1/02 (Advanced/Invention); F03B1/00 (Core/Invention)

International class (IPC 1-7): F03B1/02

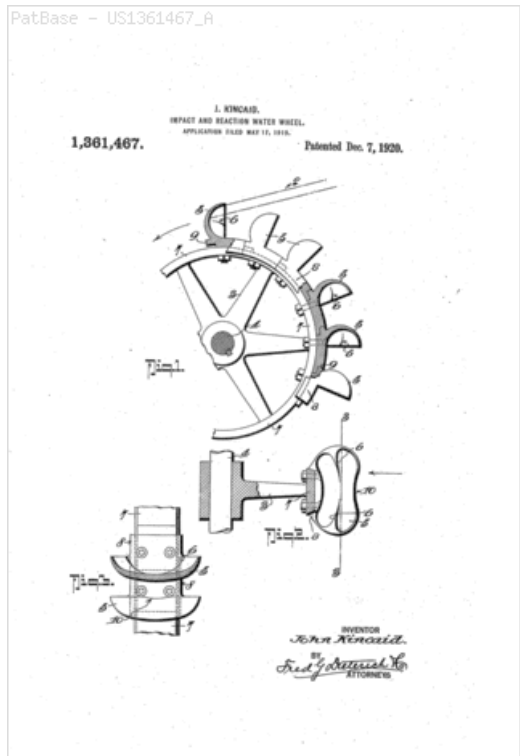
CPC: F03B1/02 Y02E10/223

European class: F03B1/02 Y02E10/22B

US class: 416/197R 416/222

[Classification Explorer](#)

Forward Citations: WO9534760, WO14117637, US8044530, US6655919, US6210113, US2010176597, FR2721361, EP3208457, EP3208457, AT518289, AT518289,



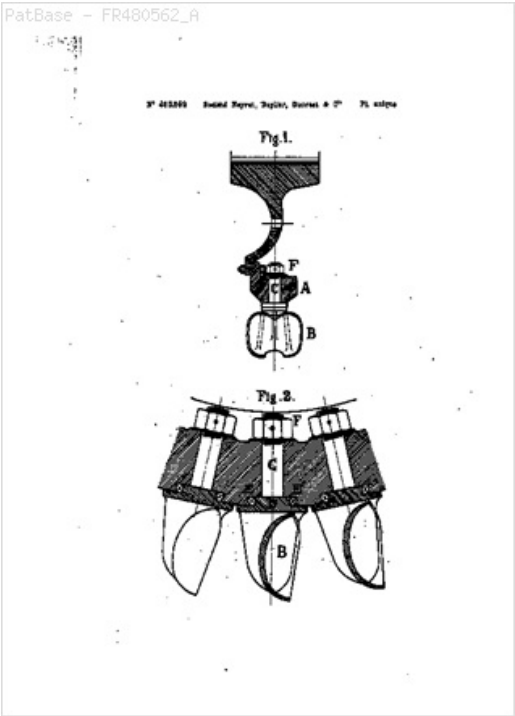
9) Family number: 26413910 (FR480562A)

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Title: Dispositif de fixation pour aubes de turbines pelton Fixation device for turbine blades pelton (Machine translation)

Family:	Publication number	Publication date	Application number	Application date
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Probable Assignee: SOCIETE NEYRET BEYLIER DUCREST ET CIE
Assignee(s):(std): SOCIETE NEYRET BEYLIER DUCREST ET CIE
International class (IPC 1-7): F03B1/02
CPC: F03B1/02 Y02E10/223
European class: F03B1/02 Y02E10/22B
[Classification Explorer](#)
Forward Citations: US2017241396, EP3208457, EP3208457, AT518289, AT518289,



10) Family number: 26413920 (AT33591B)

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Title: STRAHLRAD. STRAHLRAD. (Machine translation)
Priority: 19060409
Family:

Publication number	Publication date	Application number	Application date
AT33591 B	19080710		19060409

Probable Assignee: HUG DANIEL
Assignee(s):(std): HUG DANIEL
Assignee(s): DANIEL HUG
Inventor(s):(std): HUG DANIEL
Inventor(s): DANIEL HUG
International class (IPC 1-7): F03B1/02
CPC: F03B1/02 Y02E10/223
Forward Citations: EP3208457, AT518289, AT518289,

