



New connection on: : 08-11-2018 : 03:44:04 - Last disconnection on: : 07-11-2018 : 04:17:40

V 4.0.0.44358(LP,U,linux) (Rev:43856 2017-04-27 09:03:29 +0200#(D201802)) (RPM D201802)

Welcome to EPOQUE Rebuild under the Production Environment

[No database/cluster active] ..fi

Select a database: ..FI EPODOC

 Database: EPODOC

[EPODOC: SS 1] music+ and instrument

Results in EPODOC 32.631

[SS 2] nozzle or mouthpiece

Results in EPODOC 712.581

[SS 3] 1 and 2

Results in EPODOC 589

[SS 4] thread+

Results in EPODOC 940.470

[SS 5] 3 and 4

Results in EPODOC 28

[SS 6] ..v

[EPODOC: SS 6] ..li



1/28 © EPODOC / EPO

PN - [CN207602207U](#) U 20180710

PR - CN201721309265U 20171011

AP - CN201721309265U 20171011

DT - I

PA - TIANJIN MEISHENGDA MUSICAL INSTR CO LTD

TI - Flute

AB - The utility model discloses a flute relates to a **musical instrument**, solved the one end of **mouthpiece** pipe and can directly clear up, and the other end is in integrative sealed state, not only reduce the clearance speed that people managed to the **mouthpiece**, increases the problem of the clearance degree of difficulty simultaneously, and its technical scheme main points are: this pipe was kept away from to the **mouthpiece** pipe one side is provided with sealed lid, sealedly covers still that an organic whole is provided with **threaded** ring, and the last cover of **threaded** ring is equipped with thesealing ring that is used for sealed **mouthpiece** pipe and sealed lid, is provided with confession **threaded** ring screw -**thread** fit's **thread** groove on the **mouthpiece** pipe, the utility model discloses a flute, the convenience is cleared up the **mouthpiece** pipe, has improved clearance speed simultaneously.

2/28 © EPODOC / EPO

PN - [CN207474047U](#) U 20180608

PR - CN201720930035U 20170728

AP - CN201720930035U 20170728

DT - I

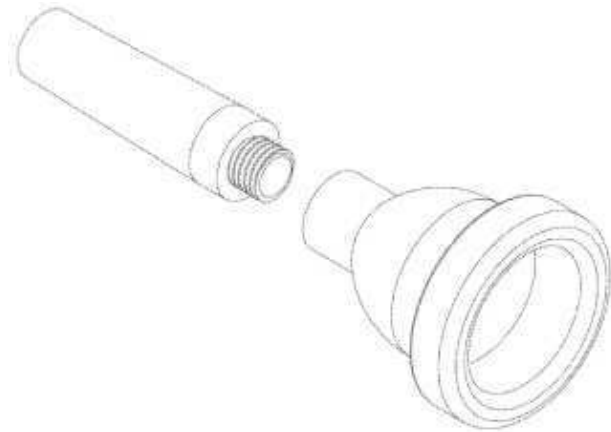
PA - SHANDONG TAISHAN WIND INSTRUMENT MFT CO LTD

TI - Saxophone's **mouthpiece** pipe

AB - The utility model relates to a saxophone's **mouthpiece** pipe, it belongs to **musical instrument** technical field. It mainly includes the mouth body mouth body top is equipped with the overtone hole, is equipped with mouth pipe plug at the tail end, the inner wall of mouth pipe plug is equipped with column, non -isometric's inside spin line, the beneficial effects of the utility model are that: make to get into the regular and unified outflow of the intraductal air current of **mouthpiece**, the **mouthpiece** intraduct is equipped with non -isometric inside spin line in addition, makes the air current pronunciation more smooth and easy, and low voice register tone quality is more clear, set to the **thread** pitch of **mouthpiece** intraduct crescently to it is smooth and easy gradually to make the air flow, last evenly unified, thereby makes the tone quality have very big promotion, and tone quality is more clear, the inside spin line installs additional alone at the **mouthpiece** intraduct, just needn't trade a whole set of saxophone if change the inside spin line, single inside spin line part of direct substitution can, so both can save a large amount of resources, avoid causing the waste, the while has also alleviated user's economic burden.

3/28 © EPODOC / EPO

PN - [US2015053062](#) A1 20150226
 PR - US201313974630 20130823
 AP - US201313974630 20130823
 DT - *; Rep
 CCI - [G10D9/026](#)
 PA - HEBERT GARY [US]
 TI - Interchangeable Mouthpieces
 for Brass Instruments
 AB - **Musicians** skilled in the



Exploded Isometric View

specialization of brasswind instruments often desire to work out the facial muscles in preparation for a wide range of tonal registries. Most mouthpieces for particular brasswind instruments come in a very small variation of diameters and cup depths. This limitation creates problems when looking to improve higher tone or lower tone ranges. Presently, the **musician** must try to modify a **mouthpiece** from an entirely different **instrument** to satisfy this need. This invention focuses on keeping the shank standardized to couple with the matching **instrument** while allowing the user to change the cup portion of the **mouthpiece** to differing sizes and depths. This design enables the user to work a much wider range of tonal registers with the simplicity of a **threaded** connection between the shank and the cup.

4/28 © EPODOC / EPO

PN - [CN203557330U](#) U 20140423
 PR - CN20132432703U 20130721
 AP - CN20132432703U 20130721
 DT - I
 PA - GUIDAOJIAOTONG POLYTECHNIC INST
 TI - Rapid clamping trumpet **nozzle** pulling device
 AB - The utility model provides a rapid clamping trumpet **nozzle** pulling device which can

rapidly pull out a trumpet **nozzle** and leave no damage to a **musical instrument**. The rapid clamping trumpet **nozzle** pulling device is composed of a spherical surface half mat, an upper base, a nut, a **thread** seat, a clamping drive plate, clamping sliding blocks, pins, a base, a wrench, etc. The clamping sliding blocks are symmetrically arranged and are arranged in a base groove; the wrench drives a clamping drive block and the pins to allow the clamping sliding blocks to move in the base so as to clamp a trumpet pipe; the nut and the **thread** seat are screwed to push the upper base to perform axial movement to pull out a trumpet **nozzle**. The rapid clamping trumpet **nozzle** pulling device is safe and convenient and has a simple structure.

5/28 © EPODOC / EPO

- PN - [CN203150092U](#) U 20130821
- PR - CN20132153141U 20130329
- AP - CN20132153141U 20130329
- DT - I
- PA - WU DANZHOU
- TI - bB high pitch adjusting saxophone conical screw **thread** neck bush
- AB - The utility model relates to a saxophone neck bush, and especially relates to a bB high pitch adjusting saxophone conical screw **thread** neck bush. The bB high pitch adjusting saxophone conical screw **thread** neck bush comprises a pipe body, an annular boss is provided at one end of the pipe body, the annular boss is fixed at a **mouthpiece** position of a **mouthpiece** pipe, the inner chamber of the pipe body is a conical shape and has screw **thread**, and the conicity of the conical inner chamber is 1:16-23. The conical inner chamber of the conical screw **thread** neck bush of the bB high pitch adjusting saxophone accords with a cone principle of the pipe body of a **musical instrument** from small to big, a bass zone enables stable transition while playing is performed, a high pitch zone enables good articulation while playing is performed, the control is easy; and the air-flow is smooth without blockage when the play is performed.

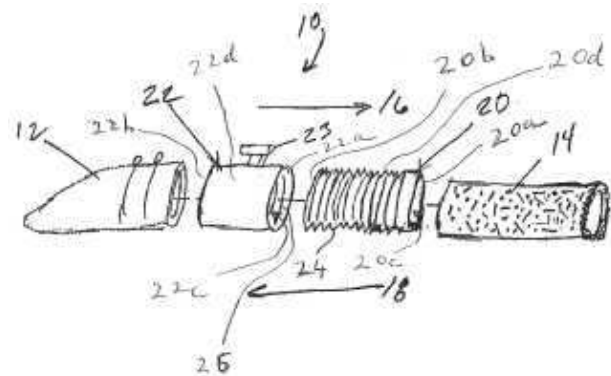
6/28 © EPODOC / EPO

- PN - [CN202855282U](#) U 20130403
- PR - CN20122569226U 20121101
- AP - CN20122569226U 20121101
- DT - I
- PA - ZHOU KUN
- TI - New type piston type clarinet
- AB - The utility model discloses a new type piston type clarinet, and relates to the technical field of **musical** instruments. The new type piston type clarinet includes a pipe body (1), a blowing **nozzle** (2), a piston rod (3) and a piston (4). The outer surface of the pipe body (1) is provided with tied **threads** (11), the piston rod (3) is arranged on the lower end of the pipe body (1), the piston (4) is installed on one end of the piston rod (3), the back side of the pipe body (1) is provided with a sound production hole (12), the blowing **nozzle** (2) is arranged on the upper end of the pipe body (1), the upper end of the blowing **nozzle** (2) is provided with a first small inclined opening having an angle of 45 degrees, the lower end of the first small inclined opening is inclined downwards and outwards, the upper end of the first small inclined opening and the pipe body (1) form a vertical opening, a small wooden stopper is arranged between the vertical opening and the top end of the

pipe, a small air inlet hole is formed in the direction of the small inclined opening, and a second small inclined opening is formed in the back side of the air inlet hole in the upper end of the blowing **nozzle** (2). The new type piston type clarinet can be used to play a variety of national **music** tunes, so the advantage of convenient utilization can be realized, and the **musical instrument** has characteristics, such as high and loud sound, wide sound range, nice tone quality, easy change, etc.

7/28 © EPODOC / EPO

- PN - [US2012152086](#) A1 20120621
- PNFP - US8283540 B2 20121009
- PR - US20100972474 20101219
- AP - US20100972474 20101219
- DT - *; Rep
- CT - || STSE (B2)
[US5249499](#) A 19931005 [
] (GOLDSTEIN BRADLEY [US], et
 al)
 - || R141 (A1)
[US5249499](#) A []
- CCI - [G10D9/005](#)
- PA - (A1)
 SLATER BENITA HOPE [US]
 - (B2)
 SLATER BENITA H [US]
- TI - (A1 B2)
Musical Instrument Tuning
 Apparatus and Method
- AB - (A1 B2)
 A **musical instrument** tuning
 device includes a tuning
 sleeve and a tuning
 collar **threadingly** engaged to
 the tuning sleeve. The
 apparatus is mountable onto
 a first portion of a **musical
 instrument** which also has a
 second portion, the second
 portion being slidably
 adjustable relative to the first
 portion to change the length
 of an air passage to tune
 that **musical instrument**. In
 one embodiment, the **musical
 instrument** tuning device is
 mounted on a neck portion of
 a saxophone to which
 a **mouthpiece** is typically
 engaged. Rotation of the
 tuning collar moves a
 saxophone **mouthpiece**
 relative to the neck portion



and thereby enables
a **musician** to quickly and
precisely tune the saxophone.

8/28 © EPODOC / EPO

PN - [US2011162508](#) A1 20110707

PNFP - US8283541 B2 20121009

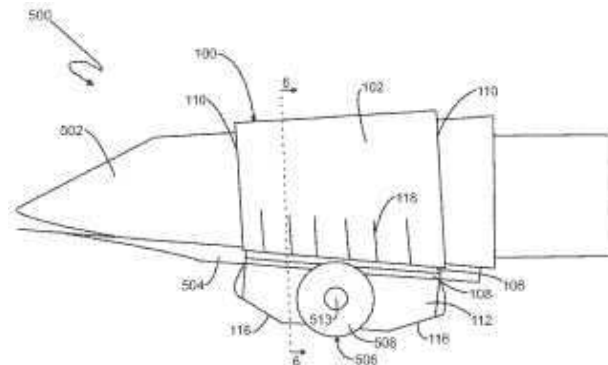
PR - US201113051192
20110318; US20090613097
20091105; US20080333174
20081211; US20080040969
20080303

AP - US201113051192 20110318

DT - *; Rep

CT - || STSE (B2)
[US4669352](#) A 19870602 [
] (BICHON SERGE [FR])
[US4745838](#) A 19880524 [
] (JOHNSON CONRAD O [US])
[US4941385](#) A 19900717 [
] (JOHNSON CONRAD O [US])
[US5998715](#) A 19991207 [
] (ROVNER PHILIP L [US])
[US6020545](#) A 20000201 [
] (CONSOLI JOHN J [US])
[US7939738](#) B2 20110510 [
] (ROVNER PHILIP LEE [US])
[US7982112](#) B2 20110719 [
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[US2011162508](#) A1 20110707
[] (ROVNER PHILIP LEE [US])

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[US7982112](#) B2 [];
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[US5998715](#) A [];
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[US3905268](#) A [];
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[US4210055](#) A [];
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[US4428271](#) A [];
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[US2005072623](#) A1 [];
[US2005087057](#) A1 [];
[US2006272473](#) A1 [];
[US7169993](#) B2 [];
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[US7470844](#) B2 [];
[US2009217798](#) A1 [];
[US2009217800](#) A1 [];
[US7626105](#) B2 [];
[US7667118](#) B1 [];
[US2010043621](#) A1 [];
[US7863509](#) B2 []

CCI	- G10D9/02
PA	- (B2) ROVNER PHILIP LEE [US]
TI	- (A1 B2) Ligature For Woodwind Instruments
AB	- (A1 B2) A ligature is provided for use in a mouthpiece system for attaching a reed to a mouthpiece of a woodwind musical instrument . The ligature is constructed from overlapping layers of flexible strap to

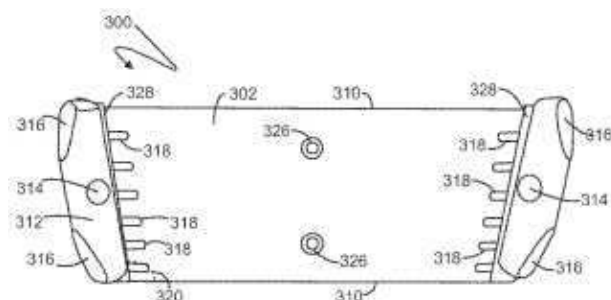
define pockets holding rigid bars. The ligature ends and rigid bars are brought together to form a loop that is placed over the **mouthpiece** and reed. A **threaded** closure mechanism is used to tighten the ligature around the **mouthpiece**. Within the interior of the loop, a rigid, weighted cradle is attached to the flexible strap by rivets. The cradle contains a plurality of identical cradle members stacked together in a laminated manner.

9/28 © EPODOC / EPO

- PN - [CN201757990U](#) U 20110309
- PR - CN20102274425U 20100729
- AP - CN20102274425U 20100729
- DT - I
- PA - HEBEI JINYIN MUSICAL INSTR GROUP CO LTD
- TI - Weighted flue pipe with replaceable **mouthpiece**
- AB - The utility model discloses a weighted flue pipe with a replaceable **mouthpiece**. The flue pipe comprises a pyramidal thickened flue pipe wall and a movable hoop connected with the larger opening end on the flue pipe wall through a screw **thread**. In the utility model, the movable hoop can be rotated through the screw **thread**, so that the flue pipe can adapt to be mounted on mouthpieces with different lengths, and the flue pipe is more sanitary in use; and as the flue pipe wall adopts a thickened structure, the **musical instrument** adopting the flue pipe can generate firmer and more powerful sounds, and the sound quality is improved effectively.

10/28 © EPODOC / EPO

- PN - [US2010043621](#) A1 20100225
- PNFP - US7982112 B2 20110719
- PR - US20090613097
20091105; US20080040969
20080303; US20080333174
20081211
- AP - US20090613097 20091105
- DT - *; Rep
- CT - || STSE (B2)
[US3433113](#) A 19690318 [
] (PORTNOY BERNARD A)
[US5018425](#) A 19910528 [
] (ROVNER PHILIP L [US])
[US5419229](#) A 19950530 [
] (VAN DOREN BERNARD [FR])
[US5623111](#) A 19970422 [
]



] (DOREN BERNARD VAN [FR],
 et al)
[USD4047555](#) S1 00000000 []
[US6020545](#) A 20000201 []
] (CONSOLI JOHN J [US])
[US6118060](#) A 20000912 []
] (VAN DOREN BERNARD [FR])
[US7169993](#) B1 00000000 []
[US7863509](#) B1 00000000 []
[US2004011183](#) A1 20040122
 [] (FLIEGEL ERWIN [DE], et al)
[US2005061136](#) A1 20050324
 [] (ROVNER PHILIP L [US])
[US2010043621](#) A1 20100225
 [] (ROVNER PHILIP LEE [US])

- || R141 (A1)
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[US2004011183](#) A1 [];
[US7169993](#) B2 [];
[US7863509](#) B2 [];
[US6020545](#) A [];
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[US6150593](#) A [];
[US2008022839](#) A1 [];
[US2009217798](#) A1 [];
[US2009217800](#) A1 []

CCI - [G10D9/02](#)

TI - (A1 B2)
 Ligature for Woodwind
 Instruments

AB - (A1 B2)
 A ligature is provided for use
 in a **mouthpiece** system for
 attaching a reed to

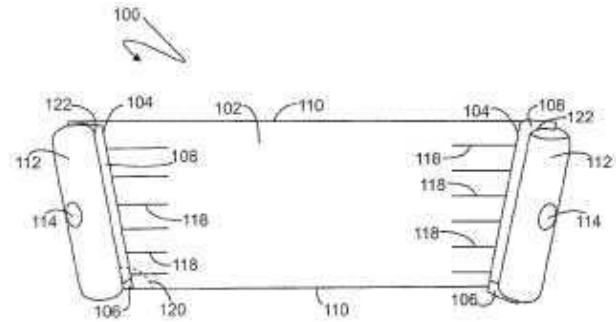
a **mouthpiece** of a woodwind **musical instrument**. The ligature is constructed from a single layer of flexible strap, having two ends to which rigid bars are fixedly secured. The ends of the straps and rigid bars are brought together to form a loop that is placed over the **mouthpiece** and reed. A **threaded** closure mechanism is used to tighten the ligature around the **mouthpiece**. The ends of the strap are crimped into slots in the rigid bars to secure the flexible strap to the rigid bars. Slots or slits run along substantially the entire length of the flexible strap. Removable masses are attached to the ligature in contact with the rigid bars.

11/28 © EPODOC / EPO

- PN - [US7638700](#) B1 20091229
- PR - US20080326978 20081203; US20070013139P 20071212
- AP - US20080326978 20081203
- DT - *
- CT - [US3191483](#) A []
- CCI - [G10D9/02](#)
- PA - CLARFLUPET LLC [US]
- TI - **Mouthpiece** for single reed woodwind **instrument**
- AB - A reed **mouthpiece** for single reed woodwind **musical instrument** comprises a **mouthpiece** body defining an air passageway. A reed placement surface is defined on the **mouthpiece** body adjacent the air passageway. A reed retaining body is formed on the **mouthpiece** body for removably securing a reed to the **mouthpiece** includes first and second upstanding walls and a transverse portion extending therebetween. The reed retaining body and reed placement surface define an axially extending channel for receiving a heel end of the reed. The transverse portion includes a tapped opening rotatably receiving a **threaded** fastener. The **threaded** fastener may be selectively advanced toward the reed placement surface by rotating in one direction and retracted away from the reed placement surface by rotating in the opposite direction to allow selective engagement and disengagement of the reed. A shoulder is provided axially adjacent the reed placement surface to prevent passage of the reed completely through the axially extending channel.

12/28 © EPODOC / EPO

PN - [US2009217800](#) A1 20090903
 PNFP - US7939738 B2 20110510
 PR - US20080333174
 20081211; US20080040969
 20080303
 AP - US20080333174 20081211
 DT - *; Rep
 CT - || R141 (A1)



[US2499855](#) A [];
[US3905268](#) A [];
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[US7169993](#) B2 [];
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[US2009217798](#) A1 []

CCI - [G10D9/02](#)
 TI - (A1 B2)
 Ligature for Woodwind
 Instruments

AB - (A1 B2)
 A ligature is provided for use in a **mouthpiece** system for attaching a reed to a **mouthpiece** of a woodwind **musical instrument**. The ligature is constructed from a single layer of flexible strap of rubberized fabric, having two ends to which rigid bars are fixedly secured. The ends of the straps and rigid bars are brought together to form a loop that is placed over the **mouthpiece** and reed.

A **threaded** closure mechanism is used to tighten the ligature around the **mouthpiece**. The ends of the strap are crimped into slots in the rigid bars to secure the masses to rigid bars. A cradle constructed from a rectangular piece of spring steel is attached to the flexible strap and is located on the interior of the loop to contact the reed along two lines.

13/28 © EPODOC / EPO

PN - [US2009217798](#) A1 20090903

PNFP - US7863509 B2 20110104

PR - US20080040969 20080303

AP - US20080040969 20080303

DT - *, Rep

CT - || STSE (B2)

[US2499855](#) A 19500307 [] (GAMBLE LOUIS E)

[US3905268](#) A 19750916 [] (GAMBLE JOHN G)

[US4210055](#) A 19800701 [] (PLATAMONE VITO JR [US])

[US4428271](#) A 19840131 [] (WINSLOW THOMAS W [US], et al)

[US4517875](#) A 19850521 [] (DOSSEKKER BRUNO [CH])

[US5289752](#) A 19940301 [] (BARBAGLIA EMILIO [IT])

[US5398582](#) A 19950321 [] (SMITH GARY T [US])

[US5728957](#) A 19980317 [] (VALTCHEV KONSTANTIN L [CA])

[US5973245](#) A 19991026 [] (VAN DOREN MONSIEUR BERNARD [FR])

[US5998715](#) A 19991207 [] (ROVNER PHILIP L [US])

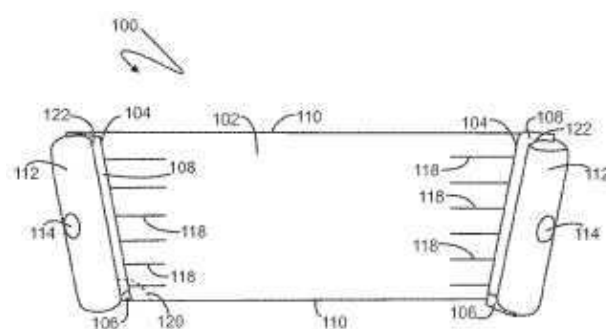
[US6020545](#) A 20000201 [] (CONSOLI JOHN J [US])

[US6130376](#) A 20001010 [] (CHANG SHUN-HWA [US])

[US6150593](#) A 20001121 [] (HOLDEN BERNARD [GB])

[US6673992](#) B1 20040106 [] (RUNYON CLINTON A [US])

[US7169993](#) B2 20070130 []



-] (FLIEGEL ERWIN [DE], et al)
 - [US2005061136](#) A1 20050324 [
 -] (ROVNER PHILIP L [US])
 - [US2008022839](#) A1 20080131 [
 -] (SULLIVAN GEORGE V [US])
 - [US2009217798](#) A1 20090903 [
 -] (ROVNER PHILIP LEE [US])
 - [US2010043621](#) A1 20100225 [
 -] (ROVNER PHILIP LEE [US])
- || R141 (A1)
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 - [US7169993](#) B2 [];
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 - [US5623111](#) A [];
 - [US6118060](#) A []
- CTNP - || STSE (B2)
 - [] Rovner Ligatures, viewed May 14, 2010 at www.rovnerproducts.com/ligatures.com
 - [] Passband, <http://www.absoluteastronomy.com/topics/Passband> viewed May 14, 2010
- CCI - [G10D9/02](#)
- TI - (A1 B2)
 - Mass-Loaded Ligature for
 - Woodwind Instruments
- AB - (A1 B2)
 - A mass-loaded ligature is
 - provided for use in a **mouthpiece**
 - system for attaching a reed to
 - a **mouthpiece** of a

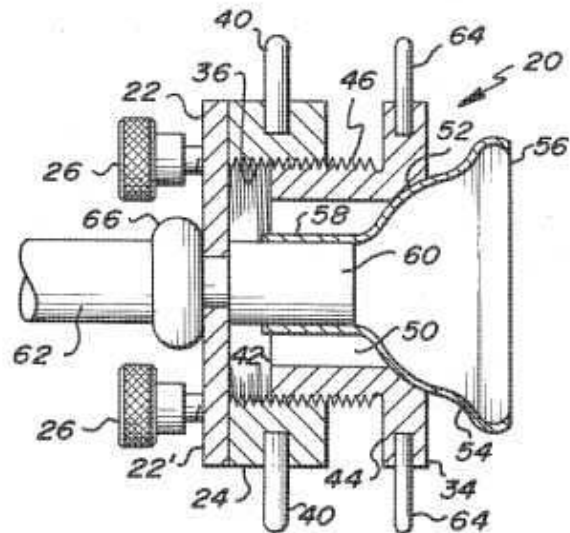
woodwind **musical instrument**. The ligature is constructed from a flexible strap of material, either metal or rubberized fabric, having two ends to which large masses are fixedly secured. The ends of the straps and masses are brought together to form a loop that is placed over the **mouthpiece** and reed. A **threaded** closure mechanism is used to tighten the ligature around the **mouthpiece**. The ends of the strap are folded over and crimped into slots in the masses to secure the masses to the strap.

14/28 © EPODOC / EPO

- PN - [US5847300](#) A 19981208
- PR - US19970880696 19970623
- AP - US19970880696 19970623
- DT - *
- CT - [US3191483](#) A []; [US3474698](#) A [];
[US5218150](#) A []
- CCI - [G10D9/026](#)
- TI - **Mouthpiece** system for a trumpet or other brass instruments
- AB - The **mouthpiece** assembly includes an internal **thread** which engages an external **thread** of a leadpipe of a brass **musical instrument**. The internal **thread** can be placed on the stem of the **mouthpiece** or on an extension to the leadpipe into which the stem frictionally engages. In either case, the radial gap between the **mouthpiece** and the leadpipe is substantially eliminated. Additionally, the diameter of the air passageway can be configured to be substantially free of discontinuities. The various pieces of the **mouthpiece** assembly can be interchanged to vary some characteristics of the **mouthpiece** while keeping other characteristics constant.

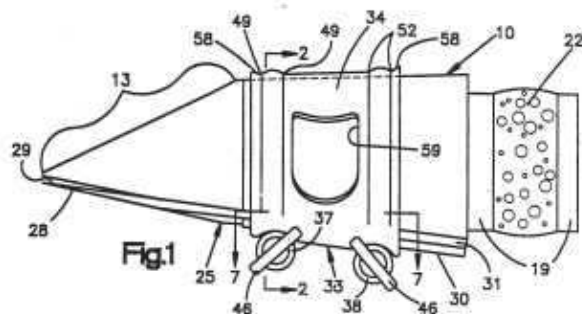
15/28 © EPODOC / EPO

PN - [US3971288](#) A 19760727
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 AP - US19750638319 19751208
 DT - *
 CT - [US2253411](#) A []; [US3191483](#)
 A [];
[US3677129](#) A []
 CCI - [G10D9/026](#) ; [G10D9/00](#)
 PA - JONES ROBERT C; ANDERSON
 ROBERT W
 TI - **Mouthpiece** extractor
 AB - Apparatus for safely
 extracting a **mouthpiece**
 which has become jammed or
 locked into the tubular stem
 of a **musical instrument**
 comprises an adjustable,
 coaxially aligned assembly
 including a **mouthpiece**-
 engaging slotted ring member
 externally **threaded** for
 engagement with the
 internally **threaded** portion
 of a slotted support collar to
 which is adjustably coupled
 a clamping means having a
 central opening for abutting
 an enlargement on the
 tubular stem of
 the **instrument** wherein upon
 rotation of the ring member
 within the support collar in
 one direction, the length of
 the apparatus is increased
 causing a thrust on
 the **mouthpiece** away from
 the tubular extension of
 the **instrument** to free
 the **mouthpiece** therefrom.



16/28 © EPODOC / EPO

PN - [US5000073](#) A 19910319
 PR - US19900481281 19900220
 AP - US19900481281 19900220
 DT - *
 CT - [US2292584](#) A []; [US3205753](#)
 A [];
[US3433113](#) A []; [US4275636](#)
 A [];
[US4428271](#) A []



CCI	- G10D9/02
PA	- HITE DAVID L [US]
TI	- Construction for supporting a reed upon the mouthpiece of a musical wind instrument and method of fabricating the same
AB	- A ligature for supporting a reed upon the mouthpiece of a single reed musical wind instrument , and method of fabricating the same. The substrate is stamped and formed into a generally tubular, longitudinally split clamping band that has two diametrically opposed windows cut therein. The end portions of the substrate are brought into abutting relation, and a pair of tubular barrels having an inner bore are braised to the exterior surface of the substrate adjacent the edges of the abutting end portions. The inner bore of each barrel has a threaded end portion. The barrels are each cut through their center portion. Each barrel is adapted to cooperate with a thumb screw to adjustably move the end portions of the substrate relative to each other so the ligature can be tightly secured upon the mouthpiece . A pair of longitudinally spaced clamping surfaces are formed in the end portions of the substrate extending inwardly and radially opposite the barrels. Each clamping surface includes a cushion disposed on each end portion having a contoured surface that conforms to the radius of curvature of the reed when supported upon the mouthpiece . The cushions contact the reed at the reed's

nodal points. Two pair of substantially circumferential ribs extending radially inwardly from the inner surface of the substrate are formed, one pair of ribs circumferentially aligned with one clamping surface, and the other pair of ribs circumferentially aligned with the other clamping surface.

17/28 © EPODOC / EPO

PN - [US2004011183](#) A1 20040122

PNFP - US7169993 B2 20070130

PR - DE2000159752
20001130; WO2001DE04481
20011130

AP - US20030433195 20030529

DT - **

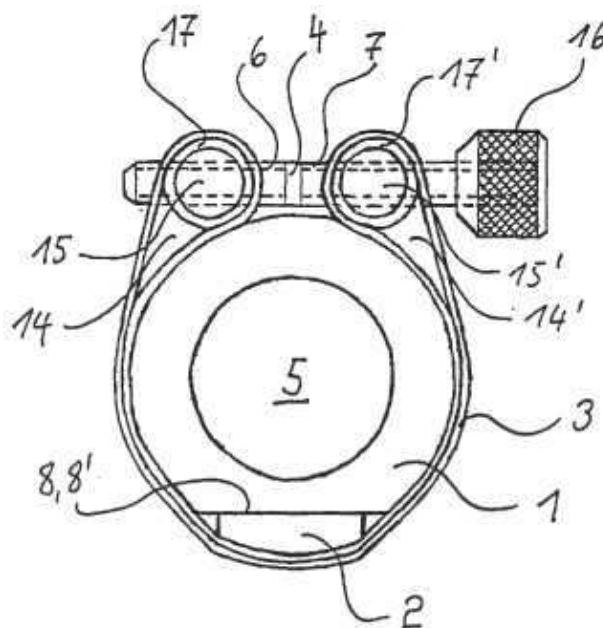
CT - || STSE (B2)
[US2200054](#) A 19400507 [
] (BUNDY GEORGE M, et al)
[US3205753](#) A 19650914 [
] (LUYBEN ROBERT L)
[US5289753](#) A 19940301 [
] (RIECKHOFF GUSTAV J [US])
[US5648623](#) A 19970715 [
] (SILVERSTEIN STEVEN [US], et
al)
[US5998715](#) A 19991207 [
] (ROVNER PHILIP L [US])
- || R141 (A1)
[US5289753](#) A [];
[US2200054](#) A [];
[US5648623](#) A [];
[US3205753](#) A [];
[US5998715](#) A []

CCI - [G10D9/02](#)

PA - (B2)
PHONOSOUND MUSIKPROD
GMBH [DE]

TI - (A1 B2)
Device for securing the reed
on the **mouthpiece** of
a **musical instrument**

AB - (A1)
The invention relates to a
device for securing the single
reed (2) on the **mouthpiece**



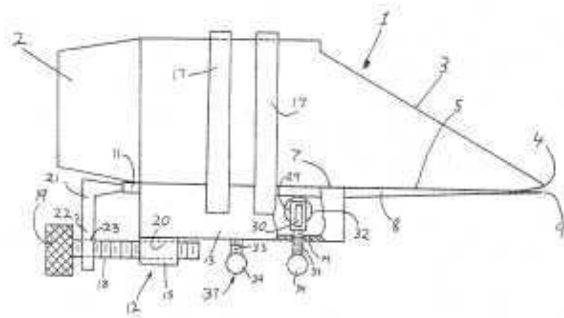
(1) of a wind **instrument**, for example a clarinet or a saxophone, by which a substantially even pressure on the surface (2') of the single reed (2) and thus on the support surface (8') of the **mouthpiece** (2) can be achieved. The securing device comprises a ligature (3) that is placed around the **mouthpiece** (1) and the single reed (2), and a ligature screw (4) with a right-hand or left-hand **thread** (6, 7) engaging with the **threads** of a bolt (15, 15') that extends through the eyes (14, 14') of the ligature (3). The single reed (2) can be easily and securely fastened or unfastened on the **mouthpiece** of the **musical instrument** by turning the ligature screw (4).

- (B2)

The invention relates to a device for securing the single reed (2) on the **mouthpiece** (1) of a wind **instrument**, for example a clarinet or a saxophone, by which a substantially even pressure on the surface (2 ') of the single reed (2) and thus on the support surface (8 ') of the **mouthpiece** (2) can be achieved. The securing device comprises a ligature (3) that is placed around the **mouthpiece** (1) and the single reed (2), and a ligature screw (4) with a right-hand or left-hand **thread** (6,7) engaging with the **threads** of a bolt (15,15 ') that extends through the eyes (14,14 ') of the ligature (3) . The single reed (2) can be easily and securely fastened or unfastened on the **mouthpiece** of the **musical**

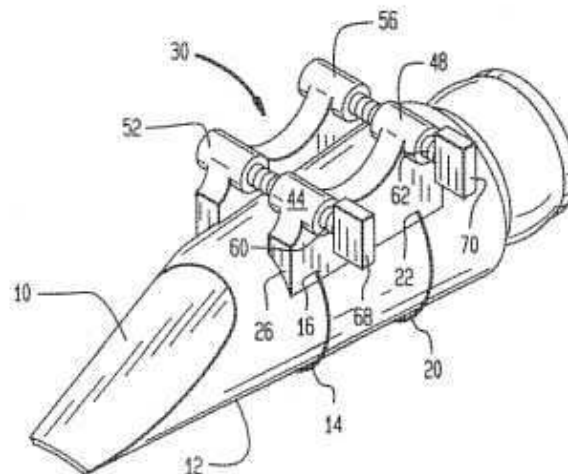
instrument by turning the
ligature screw (4).

- 18/28** © EPODOC / EPO
- PN - [US4372190](#) A 19830208
- PR - US19800202684 19801031
- AP - US19810304846 19810923
- DT - *
- CT - [GB270034](#) A []; [US1449868](#) A [];
[US3150554](#) A []
- CCI - [G10D9/02](#)
- PA - MCGUERTY JAY S
- TI - Saxophone **mouthpiece**
having reed adjustment
means
- AB - An adjusting mechanism for
longitudinally positioning the
reed on the mounting face of
a woodwind **musical
instrument mouthpiece**. In
one embodiment, the
adjustment mechanism
includes a micrometer-type
screw **threadedly** engaging a
ligature body secured to
the **mouthpiece** which
operates a yoke connected to
the rear edge of the reed to
move the reed tip with respect
to the arcuate **mouthpiece**
edge. A pair of longitudinally
spaced vertically adjustable
rollers bear against the outer
surface of the reed to provide
transverse pressure for
holding the reed in place,
while permitting longitudinal
movement. The apparatus
permits precise positioning
of the reed to produce
optimum performance with
minimum adjustment time. In
a second embodiment, the
reed is adjustable by means
of a lever arm linkage
operated by an adjustment
screw located on the bottom
of the adjustment
mechanism. The reed is
advanced or retracted by



means of a grooved roller which may cooperate with matching grooves on the reed surface. In another embodiment, adjustment is provided directly or through a gear mechanism by a thumb wheel connected to the grooved roller.

- 19/28** © EPODOC / EPO
- PN - [US5398582](#) A 19950321
- PR - US19930041362 19930401
- AP - US19930041362 19930401
- DT - *
- CT - [US5555561](#) A []; [US4185535](#) A [];
[US4258604](#) A []; [US5289752](#) A []
- CCI - [G10D9/02](#)
- PA - MOBILE MUSIC INC [US]; SMITH GARY [US]; STEFANO JOSEPH [US]
- TI - Wire clamping ligature for use with a single reed **mouthpiece** for a **musical instrument**
- AB - A wire clamping ligature for use with single reed **musical** instruments such as clarinets and saxophones which includes two retaining wires extending circumferentially around the **mouthpiece** and reed of the **instrument** to affix the reed to the **mouthpiece** and yet allow normal **musical** vibration thereof wherein the retaining wires are approximately thirty thousandths of an inch (0.030 inches) and including two drawbars each attached to the opposite ends of the two retaining wires with an adjustable clamp secured therebetween. The adjustable clamp can comprise one or two **threaded** screws rotatably mounted in one drawbar and **threadedly**



engaged with respect to the other drawbar to urge the drawbars together for tightening of the two retaining wires about the reed and **mouthpiece** for detachably affixing them together.

20/28 © EPODOC / EPO

PN - [JP2006215489](#) A 20060817
 PR - JP20050030807 20050207
 AP - JP20050030807 20050207
 DT - I
 FI - G10D7/12&A; G10D7/12&110; G10D7/12&120; G10D9/00&L; G10D9/02&A; G10D9/02&C; G10D9/02&110; G10H1/00&A; G10H1/32&Z
 FT - 5D378/SA12; 5D378/SC01; 5D378/UU05; 5D478/CC31; 5D478/JJ11; 5D478/LL00
 PA - SUZUKI MUSICAL INSTR MFG
 TI - ELONGATION FATIGUE PREVENTION DEVICE OF BELLOWS TUBE IN **MOUTHPIECE**
 AB - PROBLEM TO BE SOLVED: To prevent the elongation fatigue of a bellows tube in a **mouthpiece**, to maintain the bellows tube always in a specified form so as to permit playing any time under the same conditions, and to obviate the occurrence of a problem at the time of housing the **mouthpiece** into a **musical instrument** case after use.
 - SOLUTION: The **mouthpiece** has a bellows structure and has a juncture to a **musical instrument** body and a bellows tube constituted by attaching **mouthpiece** sections to be held in the user's mouth at both ends, in which the external force to elongate the bellows tube 14 acts to elongate the bellows tube 14 beyond the prescribed length or when the bellows tube tends to be elongated, resistance is applied thereto and the elongation fatigue of the bellows tube 14 is thereby prevented. For this purpose, the device has the configuration that the juncture 12 and the **mouthpiece** sections are connected by using **thread**-like sizing members 20 having small elongation and contraction properties.
 - COPYRIGHT: (C)2006,JPO&NCIPI

21/28 © EPODOC / EPO

PN - [JPH07219524](#) A 19950818
 PR - JP19920315708 19921030
 AP - JP19920315708 19921030
 DT - I
 FI - G10D7/10; G10D9/02&A
 PA - KOSAKAI YOSHIO
 TI - **MUSICAL INSTRUMENT AND MOUTHPIECE**
 AB - PURPOSE: To easily sound a high tone and easily make an adjustment even during a **musical** performance by elastically deforming an elastic ring member by rotating a rotary member and bulging out into the **mouthpiece**. CONSTITUTION: A male screw part 21 is cut in a side part of a **mouthpiece** main body 2 nearby its upper end, and a groove part 22 is cut in the top surface of the upper end part of the **mouthpiece** main body 2. The rotary member 3 has an engagement recessed part 31 formed

inside so as to insert a rubber ring 4, and a female screw part 32 for engaging the male screw part 21 of the **mouthpiece** main body 2 is formed at the lower part of the engagement recessed part 31. Consequently, when the rotary member 3 is rotated, the male screw part 21 of the **mouthpiece** main body 2 and the female screw part 32 of the rotary member **threadably** engage each other and the rotary member 3 descends. The rubber ring 4 is therefore pressed by the upper part of the engagement recessed part 31 of the rotary member 3 and the top surface of the upper end part of the **mouthpiece** main body 2 across a washer 5 to elastically deform and bulge into the **mouthpiece** 1.

22/28 © EPODOC / EPO

PN - [JP2000029458](#) A 20000128
 PR - JP19980226473 19980707
 AP - JP19980226473 19980707
 DT - I
 FI - G10D9/00&B; G10D9/00&110
 PA - NATSUKI BUNKICHI
 TI - WIND **INSTRUMENT** WITH RESONANCE CYLINDER
 AB - PROBLEM TO BE SOLVED: To improve the ease of sound production, sound volume, rising, etc., of a wind **instrument** by disposing a hermetically sealed resonance cylinder between a cork plug for preventing air leakage and a **mouthpiece** hole 7 for blowing breath in order to produce sounds. SOLUTION: The resonance cylinder 8 is made of the same material as the tubular body of the **musical instrument** and the shape thereof is formed by cutting in a metallic column from one side and shaping the inner side into a dome shape, then brazing a columnar metallic plate of the same blank as a cap thereto and completely hermetically sealing both. A **thread** arbor 2 is brazed to this resonance cylinder 8 and is inserted into columnar cork 3 having an outside diameter exactly fitting into the bore of the tubular body of the **musical instrument**. When air is blown from the **mouthpiece** hole 7, the flow of the air is generated in the tube and the air column confined thus far in the tubular body vibrates to generate the sounds. At this time, the vibration of the air is transferred to the outside wall of the resonance cylinder 8 and is further transmitted via the wall into the hermetically sealed resonance cylinder 8. Since this vibration is amplified in the resonance cylinder 8 and, the sound volume, the rising of the sounds, etc., are greatly increased.

23/28 © EPODOC / EPO

PN - [FR2518292](#) A1 19830617
 PNFP - FR2518292 B1 19850208
 PR - FR19810023519 19811216
 AP - FR19810023519 19811216
 DT - *; Rep
 CT - || STSE (A1)
[US4258605](#) A 19810331 [] (LORENZINI ROBERT A);
[FR342602](#) A 19040913 [] (FIGANIERE POLYEUCTE-JUSTIN [FR]);
[FR781746](#) A 19350521 [] (RAVIZE HENRI JEAN);
[FR649265](#) A 19281220 [] (SIOUR ROBERT)
 CCI - [G10D9/005](#)
 PA - (A1 B1)

FERRON E ETS [FR]

- TI - (A1)
Wind **instrument** with adjustable fibre - has space of variable length between **mouthpiece** and tube controlled by vernier
- AB - (A1)
The **musical instrument** has a wave generator (11) **mouthpiece** and a pipe (3) for standing waves. Between the two is a space (1). This space is cylindrical and of variable length, controlled by **threaded** sections (17,18), forming a vernier (20). The adjustment is fixed by a locking ring (19). The **mouthpiece** is fitted on a support (2) with a ferule (6) sliding in the outer tube and extending around upstream of the outer tube (4). The **mouthpiece** support is fixed to a **threaded** (18) adjusting ring (16) around the **threaded** (17) outer tube.

24/28 © EPODOC / EPO

PN - [FR2815758](#) A1 20020426

PR - FR20000013587 20001024

AP - FR20000013587 20001024

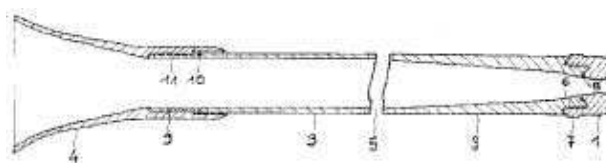
DT - *

CCI - [G10D7/00](#)

PA - PEREZ RAPHAEL [FR]

TI - Metal didgeridoo **musical instrument** has body with screw on **mouthpiece** and flare sections having O-ring seals

AB - The metal didgeridoo **musical instrument** has three detachable sections.
the **mouthpiece** (1) is cylindrical and hollow and has an external flange (7) and an inner **thread** (6) to receive a **threaded** stub on the top of the body of the **instrument**.
the **threaded** joint has a sealing O-ring (8).
The **instrument** body has bands and the lower end is **threaded** (9) with an O-ring (10) to receive the top of the flare (4).



25/28 © EPODOC / EPO

- PN - [EP2003638](#) A1 20081217
- PR - EP20070011390 20070611
- AP - EP20070011390 20070611
- DT - *; Rep
- CT - || STSE (A1)
[WO0245070](#) A2 20020606
 [DA] (PHONOSOUND
 MUSIKPROD GMBH [DE], et al)
 [DA] 1,11-14,16-26
 * page 8, line 16 - line 36 *;
[US4056997](#) A 19771108
 [A] (ROVNER PHILIP LEE);
[US5018425](#) A 19910528
 [A] (ROVNER PHILIP L [US])
- CCI - [G10D9/02](#)
- PA - PHONOSOUND MUSIKPROD
 GMBH [DE]
- TI - Device for attaching the reed to
 the **mouthpiece** of a **music
 instrument**
- AB - The holder has a ligature (3),
 which is adapted to an external
 shape of a reed and a casing of
 a **mouthpiece** of a **music
 instrument**, where the ligature
 has two eyes. A ligature screw
 has a right-hand **thread** (6) and
 a left-hand **thread** (7), which
 penetrate into bolts (15, 15'),
 where the end regions of the
 bolts are surrounded by
 rotatably supported covers (17,
 17'). Each of the covers has a
 slide locking device in an axial
 direction in the end area of
 each bolt, and the ligature
 screw has a cylindrical stop at
 an end of the **threads**.

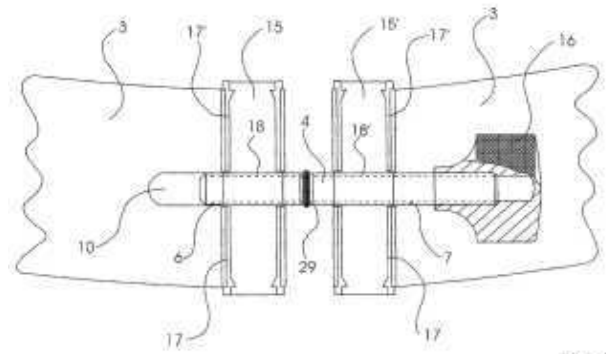


Fig. 2

26/28 © EPODOC / EPO

- PN - [DE102004004213](#) A1 20050811
- PR - DE20041004213 20040127
- AP - DE20041004213 20040127
- DT - *; Rep
- CCI - [G10H3/16](#)
- PA - BLACKRING ELECTRONIC [DE]
- TI - Microphone installation for wind **musical instrument**, uses hexagonal **threaded** nut
 for reducing inner diameter of O-ring
- AB - Hollow head screw (1) with a shaped sound entrance channel (1g) is screwed into

the through-boring in the tube section in which the head of the head screw has a outer **thread** (1b) on its inner periphery, a channel expansion (1c) and a hollow molding (1d) for positioning of an O-ring. Hexagonal **threaded** nut can be screwed on to outer **thread** of the head screw so that surface pressure exerted on the O-ring can diminish the O-ring's inner diameter. A capsule-type microphone, preferably an electrodynamic type, can be seated together with a central sound coupling **nozzle** on the **threaded** nut so that the **nozzle** extends through the latter up to the channel expansion (1c). A microphone installation has the air-column oscillations which correspond as much as possible to the frequency spectrum of the **instrument** tone/sound.

27/28 © EPODOC / EPO

- PN - [DE19638417](#) A1 19970327
- PR - FR19950011289 19950921
- AP - DE1996138417 19960919
- DT - *
- CCI - [G10D7/023](#) ; [G10H3/12](#)
- PA - SAINT CLAIR SPROUL BOLTON PHIL [FR]
- TI - **Musical** flute with electrical amplification
- AB - The **musical** flute **instrument** 1 has a small hole 2 in the main body that is positioned near to the **mouthpiece** opening 7, and connects with the air way of the **instrument** 8. The hole is **threaded** and into this is screwed a sealing plug that has a microphone insert, which has the input surface on the inner side.

28/28 © EPODOC / EPO

- PN - [WO0245070](#) A2 20020606
- PNFP - WO0245070 A3 20030116
- PR - DE2000159752 20001130
- AP - WO2001DE04481 20011130
- DT - **
- CT - |EP| ISR (A3)
[US4056997](#) A 19771108 [A] (ROVNER PHILIP LEE)
 [A] 1,3-11,13,14
 * column 3, line 39 - column 4, line 39; figure 3 *;
[US6020545](#) A 20000201 [A] (CONSOLI JOHN J [US])
 [A] 1,6,7
 * column 2, line 2 - line 26; figures 1,3 *;
[US5018425](#) A 19910528 [A] (ROVNER PHILIP L [US])
 [A] 1,8,9,11,14
 * figures 4,12 *;
[US3150554](#) A 19640929 [A] (MARCEL LELOUP)
 [A] 1-4,8,11
 * figure 7 *;
[US5623111](#) A 19970422 [A] (DOREN BERNARD VAN [FR], et al)
 [A] 12
 * column 3, line 8 - line 17 *;
[US5419229](#) A 19950530 [A] (VAN DOREN BERNARD [FR])
 [A] 20-23
 * figure 1 *;
[US4372190](#) A 19830208 [A] (MCGUERTY JAY S [US])

[A] 20-23
* figure 11 *

- CCI - [G10D9/02](#)
- PA - (A2 A3)
PHONOSOUND MUSIKPROD GMBH [DE]; FLIEGE ERWIN [DE]; FLIEGEL GUENTHER [DE]
- TI - (A2 A3)
DEVICE FOR SECURING THE REED ON THE **MOUTHPIECE** OF A **MUSICAL INSTRUMENT**
- AB - (A2 A3)
The invention relates to a device for securing the single reed (2) on the **mouthpiece** (1) of a wind **instrument**, for example a clarinet or a saxophone, by which a substantially even pressure on the surface (2') of the single reed (2) and thus on the support surface (8') of the **mouthpiece** (2) can be achieved. The securing device comprises a ligature (3) that is placed around the **mouthpiece** (1) and the single reed (2), and a ligature screw (4) with a right-hand or left-hand **thread** (6, 7) engaging with the **threads** of a bolt (15, 15') that extends through the eyes (14, 14') of the ligature (3). The single reed (2) can be easily and securely fastened or unfastened on the **mouthpiece** of the **musical instrument** by turning the ligature screw (4).

[SS 6]