

PATENTS

The following GPAINNOVA | Murua products are protected by one or more of the following patents in the U.S. and elsewhere. This page is intended to serve as notice under 35 U.S.C. § 287(a).



Murua Gold



Murua Silver



Murua Universal

The products above are covered by one or more of the following patent and patent applications.

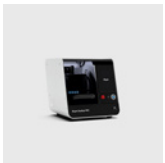
Removable electro-mechanical device for brushing and smoothing metal parts

US10315284B2, EP3124157B1, CN106413962B, 08799, 432663

Device for brunishing and smoothing metal parts

US10344393B2, EP3124156B1, CN106457436B, 87991, 436941

The following GPAINNOVA | DLyte products are protected by one or more of the following patents in the U.S. and elsewhere. This page is intended to serve as notice under 35 U.S.C. § 287(a).



Desktop PRO



DLyte 1



DLyte 10



DLyte 100



DLyte 100PRO



DLyte PRO500



**PRO500
Automated Cell**



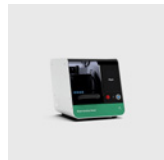
**PRO500
Multiprocess System**



DLyte 10.000



eBlast



Desktop Dental



DLyte Mini



DLyte 1D



DLyte 10D



DLyte 100D

The products above are covered by one or more of the following patent and patent applications.

Electropolishing device

P201730370

Method for smoothing and polishing metals via ion transport by means of free solid bodies, and solid bodies for carrying out said method

AU2017255989A1, BR112018072155-7, CA3020196A1, 201780025853.2, 713729, 212017000070.8, IDP000076369, 262188, 402220, 10-2328076, 400698, MY-191713-A, 2728367, 1801006589 A, 1-2018-04696, ZA2018/06563, 2018-554483,

Use of H2SO4 as electrolyte in processes for smoothing and polishing metals by ion transport via free solids

EP3640373B1, EP4148166A2, 2019800039356, US10975491B2, 2750390, IL275330A, MY-193075-A, JP7045448B2, 423488, 2001004112A, 2020/05176

Use of HCL in dry electrolytes to polish Ti and other metal and alloys surfaces by ion transport

EP3640373B1

Use of sulfonic acids in dry electrolytes to polish metal surfaces through ion transport

EP3795722A4, US20210122941A1, US20220177730A1, CN 112534088 A, 2793181, JP2021520383A, 2020/099700, 2021/03076, 2101002626A, 202117021317^a

Method and device for dry treatment of metal surfaces by means of electrically active solid particles

EP3998375A1, US20220161382A1, CN 114514341 A, 2021/019121, 2022/02181, 202217008956A

Device for the electropolishing of multiple free-moving items by means of solid electrolytes

EP4074869A1, US20220364256A1, CN 115038821 A, IL294689A, 2022/07990, 202217043274A

Solid electrolyte for dry electropolishing of metals with activitu moderator

P202030082, EP4074868A1, US20220372648A1

Electrolytic medium, electropolishing process using such electrolytic medium and device to carry it out

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Metal electrodeposition method and electrolytic medium for electrodeposition

P202130186

Direct current to asymmetrical square wave alternating current converter

P202130389

Device and method for electropolishing by means of a conductive surface

ES2846299

Electrolytic medium for electropolishing and electropolishing method with said medium

P202130985

The following **GPAINNOVA | Electrolyte** products are protected by one or more of the following patents in the U.S. and elsewhere. This page is intended to serve as notice under 35 U.S.C. § 287(a).

01. Dlyte

Product code	Nomenclature	Product code	Nomenclature	Product code	Nomenclature
DLYOX21020	DLYTE 01-MSA	DLYOX11000	DLYTE 01-S P	DLY1X0010	DLYTE MIX MSA-S G
DLYOX33029	DLYTE 01-MSA PLUS G T	DLYOX31020	DLYTE 01-MSA G	DLY1X0203	DLYTE MIX S-S G T
DLYOX21029	DLYTE 01-MSA PLUS	DLY1X0003	DLYTE MIX MSA PLUS-S	DLYOX31029	DLYTE 01-MSA PLUS G
DLYOX34029	DLYTE 01-MSA PLUS G U	DLYOX45000	DLYTE 02-S G	DLY1X0011	DLYTE MIX MSA PLUS-S G T
DLYOX21000	DLYTE 01-S	DLY1X0012	DLYTE MIX MSA PLUS M-S G T	DLYOX33000	DLYTE 01-S G T
DLYOX12000	DLYTE 02-S	DLYOX21028	DLYTE 01-MSA MINOR	DLYOX33020	DLYTE 01-MSA G T
DLY1X0101	DLYTE MIX S-S	DLY1X0202	DLYTE MIX S-S G	DLY1X0025	DLYTE MIX MSA PLUS-S FINE
DLY1X0007	DLYTE MIX MSA-S G T	DLY1X0100	DLYTE MIX S-S P	DLYOX45020	DLYTE 02-MSA G
DLYOX31000	DLYTE 01-S G	DLYOX23029	DLYTE 01-MSA PLUST		

The products above are covered by one or more of the following patent and patent applications.

<p>Electropolishing device</p> <p>P201730370</p>	<p>Method for smoothing and polishing metals via ion transport by means of free solid bodies, and solid bodies for carrying out said method</p> <p>AU2017255989A1, BR112018072155-7, CA3020196A1, 201780025853.2, 713729, 212017000070.8, IDP000076369, 262188, 402220, 10-2328076, 400698, MY-191713-A, 2728367, 1801006589 A, 1-2018-04696, ZA2018/06563, 2018-554483, EP3372711B1, US10683583B2</p>	<p>Use of H2SO4 as electrolyte in processes for smoothing and polishing metals by ion transport via free solids</p> <p>EP3640373B1, EP4148166A2, 2019800039356, US10975491B2, 2750390, IL275330A, MY-193075-A, JP7045448B2, 423488, 2001004112A, 2020/05176</p>
<p>Use of HCL in dry electrolytes to polish Ti and other metal and alloys surfaces by ion transport</p> <p>EP3640373B1</p>	<p>Use of sulfonic acids in dry electrolytes to polish metal surfaces through ion transport</p> <p>EP3795722A4, US20210122941A1, US20220177730A1, CN 112534088 A, 2793181, JP2021520383A, 2020/099700, 2021/03076, 2101002626A, 202117021317A</p>	<p>Method for producing a dry electrolyte and dry electrolyte</p> <p>P201930188</p>
<p>Device for the electropolishing of multiple free-moving items by means of solid electrolytes</p> <p>EP4074869A1, US20220364256A1, CN 115038821 A, IL294689A, 2022/07990, 202217043274A</p>	<p>Solid electrolyte for dry electropolishing of metals with activity moderator</p> <p>P202030082, EP4074868A1, US20220372648A1</p>	<p>Method and device for dry treatment of metal surfaces by means of electrically active solid particles</p> <p>EP3998375A1, US20220161382A1, CN 114514341 A, 2021/019121, 2022/02181, 202217008956A</p>
<p>Electrolytic medium, electropolishing process using such electrolytic medium and device to carry it out</p> <p>-</p>	<p>Metal electrodeposition method and electrolytic medium for electrodeposition</p> <p>P202130186</p>	<p>Device and method for electropolishing by means of a conductive surface</p> <p>ES2846299</p>

02. Dlyte Suspension

Product code	Nomenclature
DLY4X31130	DLYTE 01-MSA G L130
DLY4X31131	DLYTE 01-MSA G L131
DLY4X31230	DLYTE 01-S G L230
DLY4X31932	DLYTE MIX MSA G L932
DLY4X33230	DLYTE 01-S G L230 T
DLY4X45130	DLYTE 02-MSA G L130
DLY4X33130	DLYTE 01-MSA G L130 T
DLY4X31930	DLYTE MIX MSA G L930
DLY4X33930	DLYTE MIX MSA G L930 T

Product code	Nomenclature
DLY4X31132	DLYTE 01-MSA G L132
DLY4X21233	DLYTE 01-S L233
DLY4X31231	DLYTE 01-S PLUS G L231
DLY4X21120	DLYTE 01-MSA HIGH PLUS L120
DLY4X31802	DLYTE 01 G L802
DLY4X31803	DLYTE MIX G L803
DLY4X33802	DLYTE 01 G L802 T
DLY4X33803	DLYTE MIX G L803 T
DLY4X31124	DLYTE 01-MSA G L124

Product code	Nomenclature
DLY4X33933	DLYTE MIX G L933 T
DLY4X31125	DLYTE 01-MSA G L125
DLY4X33934	DLYTE MIX MSA G L934 T
DLY4X31806	DLYTE MIX G L806
DLY4X31807	DLYTE 01 G L807
DLY4X33807	DLYTE 01 G L807 T
DLY4X31800	DLYTE 01 G L800
DLY4X33800	DLYTE 01 G L800 T

The products above are covered by one or more of the following patent and patent applications

Electropolishing device

P201730370

Method for smoothing and polishing metals via ion transport by means of free solid bodies, and solid bodies for carrying out said method

AU2017255989A1, BR112018072155-7, CA3020196A1, 201780025853.2, 713729, 212017000070.8, IDP000076369, 262188, 402220, 10-2328076, 400698, MY-191713-A, 2728367, 1801006589 A, 1-2018-04696, ZA2018/06563, 2018-554483, EP3372711B1, US10683583B2

Use of H2SO4 as electrolyte in processes for smoothing and polishing metals by ion transport via free solids

EP3640373B1, EP4148166A2, 2019800039356, US10975491B2, 2750390, IL275330A, MY-193075-A, JP7045448B2, 423488, 2001004112A, 2020/05176

Use of HCL in dry electrolytes to polish Ti and other metal and alloys surfaces by ion transport

EP3640373B1

Use of sulfonic acids in dry electrolytes to polish metal surfaces through ion transport

EP3795722A4, US20210122941A1, US20220177730A1, CN 112534088 A, 2793181, JP2021520383A, 2020/099700, 2021/03076, 2101002626A, 202117021317A

Method for producing a dry electrolyte and dry electrolyte

P201930188

Method and device for dry treatment of metal surfaces by means of electrically active solid particles

EP3998375A1, US20220161382A1, CN 114514341 A, 2021/019121, 2022/02181, 202217008956A

Device for the electropolishing of multiple free-moving items by means of solid electrolytes

EP4074869A1, US20220364256A1, CN 115038821 A, IL294689A, 2022/07990, 202217043274A

Solid electrolyte for dry electropolishing of metals with activity moderator

P202030082, EP4074868A1, US20220372648A1

Electrolytic medium, electropolishing process using such electrolytic medium and device to carry it out

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Metal electrodeposition method and electrolytic medium for electrodeposition

P202130186

Device and method for electropolishing by means of a conductive surface

ES2846299

03. Dlyte Hybrid

Product code	Nomenclature
DLY6X31900	DLYTE HYBRID H900

The products above are covered by one or more of the following patent and patent applications

<p>Electropolishing device</p> <p>P201730370</p>	<p>Method for smoothing and polishing metals via ion transport by means of free solid bodies, and solid bodies for carrying out said method</p> <p>AU2017255989A1, BR112018072155-7, CA3020196A1, 201780025853.2, 713729, 212017000070.8, IDP000076369, 262188, 402220, 10-2328076, 400698, MY-191713-A, 2728367, 1801006589 A, 1-2018-04696, ZA2018/06563, 2018-554483, EP3372711B1, US10683583B2</p>	<p>Use of H2SO4 as electrolyte in processes for smoothing and polishing metals by ion transport via free solids</p> <p>EP3640373B1, EP4148166A2, 2019800039356, US10975491B2, 2750390, IL275330A, MY-193075-A, JP7045448B2, 423488, 2001004112A, 2020/05176</p>
<p>Use of HCL in dry electrolytes to polish Ti and other metal and alloys surfaces by ion transport</p> <p>EP3640373B1</p>	<p>Use of sulfonic acids in dry electrolytes to polish metal surfaces through ion transport</p> <p>EP3795722A4, US20210122941A1, US20220177730A1, CN 112534088 A, 2793181, JP2021520383A, 2020/099700, 2021/03076, 2101002626A, 202117021317A</p>	<p>Method for producing a dry electrolyte and dry electrolyte</p> <p>P201930188</p>
<p>Method and device for dry treatment of metal surfaces by means of electrically active solid particles</p> <p>EP3998375A1, US20220161382A1, CN 114514341 A, 2021/019121, 2022/02181, 202217008956A</p>	<p>Device for the electropolishing of multiple free-moving items by means of solid electrolytes</p> <p>EP4074869A1, US20220364256A1, CN 115038821 A, IL294689A, 2022/07990, 202217043274A</p>	<p>Solid electrolyte for dry electropolishing of metals with activitu moderator</p> <p>P202030082, EP4074868A1, US20220372648A1</p>
<p>Electrolytic medium, electropolishing process using such electrolytic medium and device to carry it out</p> <p>.</p>	<p>Device and method for electropolishing by means of a conductive surface</p> <p>ES2846299</p>	

04. Dlyte Carbides

Product code	Nomenclature	Product code	Nomenclature
DLY4X31802	DLYTE 01 G L802	DLY4X31807	DLYTE 01 G L807
DLY4X31803	DLYTE MIX G L803	DLY4X33807	DLYTE 01 G L807 T
DLY4X33802	DLYTE 01 G L802 T	DLY4X31800	DLYTE 01 G L800
DLY4X33803	DLYTE MIX G L803 T	DLY4X33800	DLYTE 01 G L800 T
DLY4X31806	DLYTE MIX G L806		

The products above are covered by one or more of the following patent and patent applications

<p>Electropolishing device</p> <p>P201730370</p>	<p>Method for smoothing and polishing metals via ion transport by means of free solid bodies, and solid bodies for carrying out said method</p> <p>AU2017255989A1, BR112018072155-7, CA3020196A1, 201780025853.2, 713729, 212017000070.8, IDP000076369, 262188, 402220, 10-2328076, 400698, MY-191713-A, 2728367, 1801006589 A, 1-2018-04696, ZA2018/06563, 2018-554483, EP3372711B1, US10683583B2</p>	<p>Method and device for dry treatment of metal surfaces by means of electrically active solid particles</p> <p>EP3998375A1, US20220161382A1, CN 114514341 A, 2021/019121, 2022/02181, 202217008956A</p>
<p>Device for the electropolishing of multiple free-moving items by means of solid electrolytes</p> <p>EP4074869A1, US20220364256A1, CN 115038821 A, IL294689A, 2022/07990, 202217043274A</p>	<p>Solid electrolyte for dry electropolishing of metals with activity moderator</p> <p>P202030082, EP4074868A1, US20220372648A1</p>	<p>Electrolytic medium, electropolishing process using such electrolytic medium and device to carry it out</p> <p>-</p>
<p>Metal electrodeposition method and electrolytic medium for electrodeposition</p> <p>P202130186</p>	<p>Device and method for electropolishing by means of a conductive surface</p> <p>ES2846299</p>	<p>Electrolytic medium for electropolishing and electropolishing method with said medium</p> <p>P202130985</p>
<p>Method for producing a dry electrolyte and dry electrolyte</p> <p>P201930188</p>		

05. Dlyte Projection

Product code	Nomenclature
DLY5X31PR3	DLYTE 01-S G LPR3
DLY5X31PR1	DLYTE 01-MSA G LPR1
DLY5X33PR2	DLYTE MIX MSA-S G T LPR2

The products above are covered by one or more of the following patent and patent applications

<p>Method for smoothing and polishing metals via ion transport by means of free solid bodies, and solid bodies for carrying out said method</p> <p>AU2017255989A1, BR112018072155-7, CA3020196A1, 201780025853.2, 713729, 212017000070.8, IDP000076369, 262188, 402220, 10-2328076, 400698, MY-191713-A, 2728367, 1801006589 A, 1-2018-04696, ZA2018/06563, 2018-554483, EP3372711B1, US10683583B2</p>	<p>Method and device for dry treatment of metal surfaces by means of electrically active solid particles</p> <p>EP3998375A1, US20220161382A1, CN 114514341 A, 2021/019121, 2022/02181, 202217008956A</p>	<p>Solid electrolyte for dry electropolishing of metals with activity moderator</p> <p>P202030082, EP4074868A1, US20220372648A1</p>
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Electrolytic medium, electropolishing process using such electrolytic medium and device to carry it out

Metal electrodeposition method and electrolytic medium for electrodeposition

P202130186

Electrolytic medium for electropolishing and electropolishing method with said medium

P202130985

Method for producing a dry electrolyte and dry electrolyte

P201930188

The above Dlyte's consumable electrolyte products may be used in combination with one or more of the Dlyte machines as listed in the Dlyte Machine section.
