

# 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.

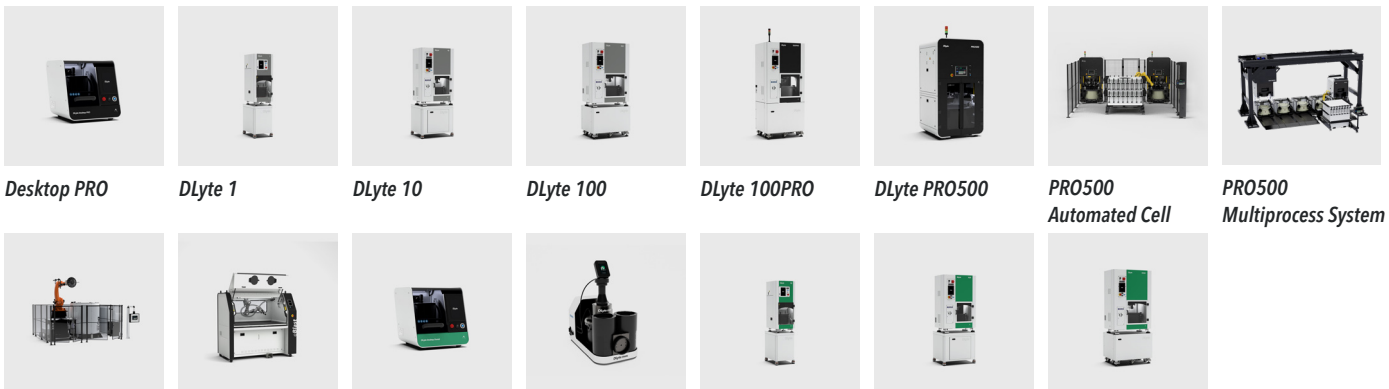
Removable electro-mechanical device for brushing and smoothing metal parts

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.

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

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

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 <i>EP3640373B1</i>	Use of sulfonic acids in dry electrolytes to polish metal surfaces through ion transport <i>EP3795722A4, US20210122941A1, US20220177730A1, CN 112534088 A, 2793181, JP2021520383A, 2020/099700, 2021/03076, 2101002626A, 202117021317<sup>a</sup></i>	Method and device for dry treatment of metal surfaces by means of electrically active solid particles <i>EP3998375A1, US20220161382A1, CN 114514341 A, 2021/019121, 2022/02181, 202217008956A</i>
Device and method for electropolishing by means of a conductive surface <i>ES2846299</i>	Solid electrolyte for dry electropolishing of metals with activitu moderator <i>P202030082, EP4074868A1, US20220372648A1</i>	Direct current to asymmetrical square wave alternating current converter <i>P202130389</i>
Metal electrodeposition method and electrolytic medium for electrodeposition <i>P202130186</i>	Electrolytic medium for electropolishing and electropolishing method with said medium <i>P202130985</i>	Electrolytic medium, electropolishing process using such electrolytic medium and device to carry it out ---
Electropolishing device <i>P201730370</i>		

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).

Product code	Nomenclature	Product code	Nomenclature	Product code	Nomenclature
DLY4X31800	DLYTE 01 G L800	DLY0X33029	DLYTE 01-MSA PLUS G T	DLY4X33803	DLYTE MIX G L803 T
DLY4X33800	DLYTE 01 G L800 T	DLY0X34029	DLYTE 01-MSA PLUS G U	DLY4X33933	DLYTE MIX G L933 T
DLY4X31802	DLYTE 01 G L802	DLY0X23029	DLYTE 01-MSA PLUS T	DLY4X31930	DLYTE MIX MSA G L930
DLY4X33802	DLYTE 01 G L802 T	DLY0X21000	DLYTE 01-S	DLY4X33930	DLYTE MIX MSA G L930 T
DLY0X21020	DLYTE 01-MSA	DLY0X31000	DLYTE 01-S G	DLY4X31932	DLYTE MIX MSA G L932
DLY0X31020	DLYTE 01-MSA G	DLY4X31230	DLYTE 01-S G L230	DLY1X0012	DLYTE MIX MSA PLUS M-S G T
DLY4X31124	DLYTE 01-MSA G L124	DLY4X33230	DLYTE 01-S G L230 T	DLY1X0003	DLYTE MIX MSA PLUS-S
DLY4X31125	DLYTE 01-MSA G L125	DLY5X31PR3	DLYTE 01-S G LPR3	DLY1X0025	DLYTE MIX MSA PLUS-S FINE
DLY4X31130	DLYTE 01-MSA G L130	DLY0X33000	DLYTE 01-S G T	DLY1X0011	DLYTE MIX MSA PLUS-S G T
DLY4X33130	DLYTE 01-MSA G L130 T	DLY4X21233	DLYTE 01-S L233	DLY1X0010	DLYTE MIX MSA-S G
DLY4X31131	DLYTE 01-MSA G L131	DLY0X11000	DLYTE 01-S P	DLY1X0007	DLYTE MIX MSA-S G T
DLY4X31132	DLYTE 01-MSA G L132	DLY4X31231	DLYTE 01-S PLUS G L231	DLY5X33PR2	DLYTE MIX MSA-S G T LPR2
DLY5X31PR1	DLYTE 01-MSA G LPR1	DLY0X45020	DLYTE 02-MSA G	DLY1X0101	DLYTE MIX S-S
DLY0X33020	DLYTE 01-MSA G T	DLY4X45130	DLYTE 02-MSA G L130	DLY1X0202	DLYTE MIX S-S G
DLY4X21120	DLYTE 01-MSA HIGH PLUS L120	DLY0X12000	DLYTE 02-S	DLY1X0203	DLYTE MIX S-S G T
DLY0X21028	DLYTE 01-MSA MINOR	DLY0X45000	DLYTE 02-S G	DLY1X0100	DLYTE MIX S-S P
DLY0X21029	DLYTE 01-MSA PLUS	DLY6X31900	DLYTE HYBRID H900		
DLY0X31029	DLYTE 01-MSA PLUS G	DLY4X31803	DLYTE MIX G L803		

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

<p>Electropolishing device <i>P201730370</i></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  <i>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</i></p>	<p>Use of H2SO4 as electrolyte in processes for smoothing and polishing metals by ion transport via free solids  <i>EP3640373B1, EP4148166A2, 2019800039356, US10975491B2, 2750390, IL275330A, MY-193075-A, JP7045448B2, 423488, 2001004112A, 2020/05176</i></p>
<p>Use of HCL in dry electrolytes to polish Ti and other metal and alloys surfaces by ion transport  <i>EP3640373B1</i></p>	<p>Use of sulfonic acids in dry electrolytes to polish metal surfaces through ion transport  <i>EP3795722A4, US20210122941A1, US20220177730A1, CN 112534088 A, 2793181, JP2021520383A, 2020/099700, 2021/03076, 2101002626A, 202117021317<sup>a</sup></i></p>	<p>Method and device for dry treatment of metal surfaces by means of electrically active solid particles  <i>EP3998375A1, US20220161382A1, CN 114514341 A, 2021/019121, 2022/02181, 202217008956A</i></p>
<p>Device for the electropolishing of multiple free-moving items by means of solid electrolytes  <i>EP4074869A1, US20220364256A1, CN 115038821 A, IL294689A, 2022/07990, 202217043274A</i></p>	<p>Solid electrolyte for dry electropolishing of metals with activitu moderator  <i>P202030082, EP4074868A1, US20220372648A1</i></p>	<p>Electrolytic medium, electropolishing process using such electrolytic medium and device to carry it out  ...</p>
<p>Metal electrodeposition method and electrolytic medium for electrodeposition  <i>P202130186</i></p>	<p>Device and method for electropolishing by means of a conductive surface  <i>ES2846299</i></p>	<p>Electrolytic medium for electropolishing and electropolishing method with said medium  <i>P202130985</i></p>

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