

# Patents

03.2019

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## 1.1 Marking statute

Pursuant to Title 35, Chapter 29, Section 287(a) in the United States Code (the “marking statute”), public notice is given that the products by GF Machining Solutions are protected by one or more of the US patents listed below.

## 1.2 Patent list

The following list contains the active US Patents and US Design Patents held by companies of the GF Machining Solutions at the indicated date (March 2019). GF Machining Solutions is a division of Georg Fischer AG, Schaffhausen.

By clicking the corresponding patent number you can access the full patent document on a public database. A working internet connection is required hereto. The link leads you to either espacenet, the Patent Database of the European Patent Organisation (EPO), or to the Patent Database of the United States Patent and Trademark Office (USPTO).

### 1.2.1 US Patents and US Design Patents held by Agie Charmilles SA, Losone

US Patent	Title
<a href="#">6.392,183</a>	Process and device for machining by electroerosion
<a href="#">6.465,754</a>	Process and device for machining by electroerosion
<a href="#">6.486,429</a>	Electric discharge machine and module set for assembly of machine tools
<a href="#">6.495,789</a>	Device and method for introducing a machining electrode into a EDM machine
<a href="#">6.521,856</a>	Method and device for controlling a die-sink erosion machine
<a href="#">6.556,886</a>	Method and device for controlling a machine tool, in particular, a die-sink erosion machine
<a href="#">6.600,125</a>	Process parameter optimization in electrical discharge machining
<a href="#">6.642,470</a>	Process and device for machining a three-dimensional piece by electroerosive milling
<a href="#">6.759,620</a>	Method and device for controlling a die-sink erosion machine
<a href="#">6.933,457</a>	Method and apparatus for electrical discharge machining of a workpiece
<a href="#">7,582,842</a>	Method and apparatus for generating machining pulses for electrical discharge machining
<a href="#">7,608,795</a>	Device for machining by electroerosion
<a href="#">7,816,620</a>	Method and generator for electrical discharge machining
<a href="#">7,948,758</a>	Circuit board unit and method for production thereof
<a href="#">8,093,527</a>	Device and method for high frequency electrical discharge machining
<a href="#">8,093,528</a>	Method and device for electrical discharge machining
<a href="#">8,129,650</a>	Method and device for stretching and/or separating wires
<a href="#">8,242,403</a>	Wire electric discharge machining method and apparatus
<a href="#">8,299,386</a>	Device designed to cut off the spent wire on a spark erosion machine
<a href="#">8,369,980</a>	Method of operating a machine tool, a machine tool system and components thereof
<a href="#">8,395,069</a>	Method and apparatus for controlling an electric discharge machining process
<a href="#">8,519,296</a>	Method and machine for machining parts using spark-erosion milling
<a href="#">8,792,566</a>	Method and apparatus for digital data transmission
<a href="#">8,912,466</a>	Electrode management device for electrical discharge machining machine tools
<a href="#">9,193,020</a>	Wire cutting method

<a href="#">9,360,857</a>	Electrical discharge milling machine
<a href="#">9,682,436</a>	Electric discharge machine
<a href="#">9,844,825</a>	Method and apparatus for spark-erosion machining of a workpiece
<a href="#">10,040,154</a>	Handling device for wire electric discharge machines
<a href="#">D620,508</a>	Machine tool
<a href="#">D627,375</a>	Machine tool
<a href="#">D752,572</a>	Control console

#### 1.2.2 US Patents held by Agie Charmilles New Technologies SA, Meyrin

US Patent	Title
<a href="#">9,180,551</a>	Dual laser head
<a href="#">9,248,523</a>	Laser machine, laser machine system

#### 1.2.3 US Patents held by GF Machining Solutions AG, Nidau

US Patent	Title
<a href="#">6,632,054</a>	Portal milling machine
<a href="#">6,957,121</a>	Method and an operator support system for assisting an operator in setting machine parameters
<a href="#">7,226,403</a>	Machine tool, in particular a drilling and milling machine
<a href="#">7,260,446</a>	Temperature protection method for machine tool
<a href="#">7,721,398</a>	Cutting machine with a workpiece changer
<a href="#">9,764,439</a>	High voltage crash prevention device for machine tools
<a href="#">10,030,960</a>	Optical measuring probe calibration
<a href="#">10,042,347</a>	Standby control for machine tools
<a href="#">10,042,922</a>	Database for chatter predictions

#### 1.2.4 US Patents held by GF Machining Solutions AG, Langnau

US Patent	Title
<a href="#">6,622,586</a>	Positioning device
<a href="#">10,219,612</a>	Brushing device for the working of workpieces

### 1.2.5 US Patents held by Microlution Inc., Chicago

US Patent	Title
<a href="#">7,989,972</a>	Electro-magnetic closed-loop speed control for air-turbine spindles
<a href="#">8,574,139</a>	Machine tool with automatic tool changer
<a href="#">9,539,684</a>	Micro turning machine
<a href="#">9,604,332</a>	Fast live tool system
<a href="#">9,764,426</a>	Multi-Station Laser Machine
<a href="#">9,835,437</a>	Laser tube cutter with in-situ measuring and sorting

### 1.2.6 US Patents held by Step-Tec AG, Luterbach

US Patent	Title
<a href="#">8,684,643</a>	Shaft cooling for a machine tool motor spindle
<a href="#">8,950,507</a>	Device for preventing vibrations in a tool spindle
<a href="#">9,925,633</a>	Apparatus for cooling machine components using phase-change material

### 1.2.7 US Patents held by System 3R International AB, Vällingby

US Patent	Title
<a href="#">6,336,767</a>	Coupling device having two coupling members and clamping means
<a href="#">6,485,214</a>	Coupling device
<a href="#">6,536,754</a>	Levelling apparatus
<a href="#">6,811,150</a>	Holder for accurate positioning of a workpiece
<a href="#">6,997,448</a>	Device for the detachable mounting of workpieces on machining devices
<a href="#">8,061,717</a>	Positioning and clamping device for tools and/or workpieces
<a href="#">8,087,651</a>	Coupling device
<a href="#">8,134,714</a>	Resonator length measurement
<a href="#">8,496,458</a>	Die press assembly for powder pressing
<a href="#">9,108,286</a>	Clamping device for a tool or a workpiece
<a href="#">9,527,139</a>	Clamping chuck with integrated drawbar

Other Patents are pending. Patents and Design Patents do exist in several countries, besides the United States.