

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 739

DATE: JANUARY 1, 2020

PROJECT DP0206

The following classification changes will be effected by this Notice of Changes:

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
DEFINITIONS:		
Definitions Modified:	G01M	1/00, 5/00, 7/00, 9/00, 10/00, 13/00, 15/00, 17/00

This Notice of Changes includes the following *[Check the ones included]:*

1. CLASSIFICATION SCHEME CHANGES

- A. New, Modified or Deleted Group(s)
- B. New, Modified or Deleted Warning(s)
- C. New, Modified or Deleted Note(s)
- D. New, Modified or Deleted Guidance Heading(s)

2. DEFINITIONS

- A. New or Modified Definitions (Full definition template)
- B. Modified or Deleted Definitions (Definitions Quick Fix)

3. REVISION CONCORDANCE LIST (RCL)

4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

5. CHANGES TO THE CROSS-REFERENCE LIST (CRL)

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2. B. DEFINITIONS QUICK FIX

<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
G01M 1/00	Definition statement	<p>Methods and apparatus for:</p> <ul style="list-style-type: none"> • Determining and compensating static or dynamic unbalance of machine or structures. • Determining the moment of inertia of machines or structures. • Static balancing of machines or structures. • Determining position of centre of gravity of machines or structures. • Devices for determining unbalance of machines. 	<p><u>Delete</u> the <u>last two</u> statements in the Definition statement section:</p> <ul style="list-style-type: none"> • Devices for determining unbalance of machines. • Devices for correcting unbalance of machines or structures. <p><u>Insert</u> the following text as the <u>last</u> statement in the Definition statement section:</p> <ul style="list-style-type: none"> • Combined machines or devices for both determining and correcting unbalance of machines or structures.
G01M 1/00	Relationships with other classification places	<p>G01R covers instruments for measuring electrical variables, which can be used for balancing machines or devices but not specially adapted for this purposes.</p>	<p><u>Replace</u> in the Relationships with other classification places section, 2nd paragraph, the word “purposes” with the following:</p> <p>purpose</p>

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G01M 1/00	Informative references		<p><u>Delete</u> the following two rows from the Informative references table.</p> <p>Tools for wheel weight mounting or removing B25B 27/0078</p> <p>Balancing rotors of turbines F01D 5/027</p>
G01M 5/00	Definition statement	<p>Investigating the elasticity of structures, e.g. deflection of bridges, aircraft wings or blades, elongated object, like pipe, masts, tower or railways, e.g. testing elastic properties of bodies or chassis, e.g. torsion-testing:</p> <ul style="list-style-type: none"> • by determining damage, crack or wear. • by determining deflection or stress. • by using vibration or acceleration excitation or detection. • by using an external apparatus, like a test bench. • by measuring a variation of impedance (resistance, 	<p><u>Replace</u> all existing text in the Definitions statement section with the following two statements:</p> <p>Investigating the elasticity of structures, e.g. deflection of bridges, aircraft wings.</p> <p>Testing elastic properties of bodies or chassis, e.g. torsion-testing.</p>

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		inductance or capacitance). • by using electromagnetic excitation or detection.	
G01M 5/00	Definition statement	<p><u>Further details of subgroups</u></p> <p><u>G01M 5/0066</u>; This subgroup has some...in G01M 7/00.</p> <p>This subgroup also covers... in G01M 5/0008.)</p> <p>G01M 5/0075: This sub-group has some overlap ...in G01M 11/00.</p> <p>This sub group does not cover...optical means (G01N 21/00).</p>	<p><u>Delete</u> in the Definition statement section the following text:</p> <p><u>Further details of subgroups</u></p> <p><u>G01M 5/0066</u>; This sub-group has some overlap...to be classified in G01M 7/00.</p> <p>This subgroup also covers...also classify in G01M 5/0008.)</p> <p>G01M 5/0075: This sub-group has some overlap ...to be classified in G01M 11/00.</p> <p>This sub group does not cover ...optical means (G01N 21/00).</p>
G01M 5/00	Relationships with other classification places	G01B covers apparatus, which can be used for investigating the elasticity of structures but not specially adapted for this purposes, e.g. strain gauges.	<p><u>Replace</u> ALL text in the Relationships with other classification places section with the following text:</p> <p>G01B covers apparatus, which can be used for investigating the elasticity of structures but not specially</p>

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<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
		<p>G01H covers apparatus or methods for the measurement, or measurement in combination with generation, of mechanical vibrations or the like, and particularly for the measurement of:</p> <p>Mechanical vibrations or ultrasonic, sonic or infrasonic waves by using radiation-sensitive means, e.g. Optical means.</p> <p>Mechanical vibrations or ultrasonic, sonic or infrasonic waves by detecting changes in electric or magnetic properties.</p> <p>Mechanical vibrations or ultrasonic, sonic or infrasonic waves by other means;</p> <p>Vibrations in solids by using direct conduction to the detector.</p> <p>Vibrations in fluids by using a detector in a fluid.</p>	<p>adapted for this purpose, e.g. strain gauges. G01H covers measurement of mechanical vibrations in general.</p>

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<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
		<p>Propagation velocity of ultrasonic, sonic or infrasonic waves.</p> <p>Reverberation time. Resonant frequency.</p> <p>Mechanical or acoustic impedance.</p>	
G01M 5/00	Limiting references		<p><u>Replace</u> only the text in the <u>first</u> column of the Limiting references table with the following text:</p> <p>Aerodynamic testing; Arrangements in or on wind tunnels</p>
G01M 5/00	Informative references	<p>Testing of machine parts G01M 13/00</p> <p>Testing a vehicles G01M 17/00</p> <p>Mechanical testing of complete machine G01M 99/005</p> <p>Testing a structure by applying load G01M 99/007</p> <p>Testing of foundations or foundations structures E02D 33/00</p> <p>Earthquake detection G01V 1/00</p>	<p><u>Replace</u> all existing rows in the Informative references table with the following three rows:</p> <p>Strain gauge G01B</p> <p>Investigating the ductility of materials G01N 3/28</p> <p>Measuring speed of fluids, e.g. of air stream; Measuring speed of bodies relative to fluids, e.g. of ship, of aircraft G01P 5/00</p>

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<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
		Testing of nuclear power plants G21C 17/00	
G01M 7/00	Relationships with other classification places	<p>G01B covers Instruments and methods for measuring linear dimensions of objects such as length, thickness, width, height, depth, diameter, coordinates of points of objects, distance or clearance between spaced objects or spaced apertures, angles or tapers, alignment of axes, areas, contours, curvatures, or profiles, roughness or irregularities of surfaces, deformation in a solid.</p> <p>G01H covers measurement of mechanical vibrations in general.</p>	<p><u>Replace</u> all text in the Relationships with other classification places section with the following <u>one</u> paragraph:</p> <p>G01B covers apparatus, which can be used for investigating the elasticity of structures but not specially adapted for this purpose, e.g. strain gauges. G01H covers measurement of mechanical vibrations in general.</p>
G01M 7/00			<p><u>Insert</u> the following <u>new</u> Application-oriented references section:</p> <p><i>Application-oriented references</i></p> <p><i>Examples of places where the subject matter of this place is covered when</i></p>

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			<p><i>pecially adapted, used for a particular purpose, or incorporated in a large system:</i></p> <p>Testing gearings or transmission mechanisms by acoustic or vibration analysis G01M 13/028</p> <p>Testing bearings by acoustic or vibration analysis G01M 13/045</p>
G01M 7/00	Informative references	<p>Testing of gearings and transmission mechanisms using acoustic or vibration analysis G01M 13/028</p> <p>Testing of bearings using acoustic or vibration analysis G01M 13/045</p> <p>Testing of internal combustion engine using acoustic or vibration analysis G01M 15/12</p> <p>Testing the effect of speed or acceleration G01M 99/004</p> <p>Generating and transmitting of mechanical vibrations. B06B</p>	<p><u>Replace</u> all existing rows in the Informative references section with the following three rows:</p> <p>Strain gauge G01B</p> <p>Investigating the ductility of materials G01N 3/28</p> <p>Measuring speed of fluids, e.g. of air stream; Measuring speed of bodies relative to fluids, e.g. of ship, of aircraft G01P 5/00</p>

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		<p>Testing of foundations or foundations structures E02D 33/00</p> <p>Strain gauges G01B</p> <p>Measurement of mechanical vibrations in general. G01H</p> <p>Investigating the properties of solids material by application of a single impulsive force G01N 3/30</p> <p>Investigating the properties of solids material by application of a repeated or pulsating force G01N 3/32</p> <p>Investigating the properties of material by the use of ultra sonic, sonic or infra sonic waves G01N 29/00</p> <p>Investigating the presence of flaws in solids by the use of ultrasonic, sonic or</p>	

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<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
		<p>infrasonic waves G01N 29/04</p> <p>Earthquake detection G01V 1/00</p> <p>Musical instruments and acoustics. G10</p> <p>Testing of nuclear power plants G21C 17/00</p> <p>Loudspeakers, microphones and similar devices. H04R</p>	
G01M 9/00	Relationships with other classification places	<p>G01B covers apparatus, which can be used for investigating the elasticity of structures but not specially adapted for this purposes, e.g. strain gauges.</p> <p>G01H covers measurement of mechanical vibrations in general.</p>	<p><u>Replace</u> in the Relationships with other classification places section the two existing paragraphs with <u>one</u> combined paragraph:</p> <p>G01B covers apparatus, which can be used for investigating the elasticity of structures but not specially adapted for this purpose, e.g. strain gauges. G01H covers measurement of mechanical vibrations in general.</p>
G01M 9/00	Informative references	<p>Investigating the elasticity of structures, e.g. deflection of bridges, aircraft wings G01M 5/00</p>	<p><u>Replace</u> in the Informative references table all existing rows with the following three rows:</p> <p>Strain gauge G01B</p>

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<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
		<p>Vibration testing of structures; Shock-testing of structures G01M 7/00</p> <p>Investigating the ductility of materials G01N 3/28</p> <p>Measuring speed of fluids, e.g. of air stream; Measuring speed of bodies relative to fluids, e.g. of ship, of aircraft G01P 5/00</p>	<p>Investigating the ductility of materials G01N 3/28</p> <p>Measuring speed of fluids, e.g. of air stream; Measuring speed of bodies relative to fluids, e.g. of ship, of aircraft G01P 5/00</p>
G01M 10/00	Relationships with other classification places	<p>G01B covers apparatus, which can be used for investigating the elasticity of structures but not specially adapted for this purposes, e.g. strain gauges.</p> <p>G01H covers measurement of mechanical vibrations in general.</p>	<p><u>Replace</u> in the Relationships with other classification places section the two existing paragraphs with the following <u>one</u> combined paragraph:</p> <p>G01B covers apparatus, which can be used for investigating the elasticity of structures but not specially adapted for this purpose, e.g. strain gauges. G01H covers measurement of mechanical vibrations in general.</p>
G01M 10/00	Informative references	<p>Method for design, building or repairing or determining properties using towing tanks or model basins B63B 9/02</p>	<p><u>Replace</u> in the Informative references table all of the existing rows with the following <u>three</u> rows:</p> <p>Strain gauge G01B</p>

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		<p>Determining vessel properties with respect stability or balance B63B 9/08</p> <p>Apparatus for indicating vessel attitude B63B 39/00</p> <p>Strain gauges G01B</p> <p>Investigating properties of materials in general G01N</p> <p>Investigating the ductility of materials G01N 3/28</p> <p>Measuring speed of fluids, e.g. of air stream; Measuring speed of bodies relative to fluids, e.g. of ship, of aircraft G01P 5/00</p> <p>Building aspects E</p>	<p>Investigating the ductility of materials G01N 3/28</p> <p>Measuring speed of fluids, e.g. of air stream; Measuring speed of bodies relative to fluids, e.g. of ship, of aircraft G01P 5/00</p>
G01M 13/00	Relationships with other classification places	G01L covers instruments which can be used for testing of machine parts (gearing, transmission mechanisms), of steering or rolling	<p><u>Replace</u> the entire paragraph with the following:</p> <p>G01L covers instruments which can be used for testing of machine parts, e.g. gearing, transmission mechanisms, of steering or</p>

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		behavior of vehicles, e.g. measuring efficiency, steering angles, steering forces, but not specially adapted for this purposes.	rolling behavior of vehicles, e.g. measuring efficiency, steering angles, steering forces, but not specially adapted for these purposes.
G01M 13/00	Informative references		<u>Delete</u> in the Informative references table the following existing row: Testing of valves F16K 37/0075
G01M 13/00	Informative references		<u>Insert</u> in the Informative references table the following <u>new</u> rows: Devices for measuring, signaling, controlling, or distributing tyre pressure or temperature, specially adapted for mounting on vehicles F60C 23/00 Monitoring or diagnostic devices for exhaust-gas treatment apparatus F01N 11/00 Indicating or supervising devices of internal-combustion engines F02B 77/08 Running-in of internal-combustion engines F02B 79/00

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<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
			<p>Controlling combustion engines F02D</p> <p>Rocket-engine plants characterised by specially adapted arrangements for testing or measuring F02K 9/96</p> <p>Testing of wind motors F03D 17/00</p> <p>Testing machines, pumps, or pumping installations F04B 51/00</p> <p>Testing fluid-pressure actuator systems or apparatus, so far as not provided for elsewhere F15B 19/00</p> <p>Special means in or on valves indicating or recording operation thereof F16K 37/00</p> <p>Arrangements for monitoring the condition or operation of elastic sealings F16J 15/3296</p> <p>Monitoring wear or stress of gearing elements F16H 57/01</p> <p>Detecting malfunction or potential malfunction of change-speed- or reversing-gearings F16H 61/12</p>

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<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
			<p>Detecting malfunction or potential malfunction of hydrostatic gearings F16H 61/4192</p> <p>Testing of ignition installations of combustion apparatus F23Q 23/00</p> <p>Devices for determining the value of power, e.g. by measuring and simultaneously multiplying the values of tractive or propulsive force and velocity G01L 3/24</p> <p>Measuring wheel side-thrust G01L 5/20</p> <p>Measuring the force applied to control members, e.g. control members of vehicles, triggers G01L 5/22</p> <p>Determining the characteristic of torque in relation to revolutions per unit of time G01L 5/26</p> <p>Devices or apparatus for measuring tyre pressure or the pressure in other inflated bodies G01L 17/00</p> <p>Devices for detecting or indicating knocks in internal-combustion engines G01L 23/22</p>

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<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
			<p>Devices for measuring pressure in inlet or exhaust ducts of internal-combustion engines G01L 23/24</p> <p>Means for indicating positions or pistons or cranks of internal-combustion engines by measuring pressure G01L 23/30</p> <p>Testing or calibrating of apparatus for measuring force, torque, work, mechanical power, or mechanical efficiency G01L 25/00</p> <p>Testing or calibrating of apparatus for measuring fluid pressure G01L 27/00</p>
G01M 15/00	Definition statement	<p><u>Further details of subgroups</u></p> <p>G01M 15/042 if the devices monitors with fuel consumption, ignition, compression, load, multiple diagnostic stations, test station in series;</p> <p><i>(through)</i></p> <p>And if several parameter are monitored at the same time:</p>	<p><u>Delete</u> in the Definitions statement section ALL of the text in the <u>Further details of subgroups</u> section:</p> <p>G01M 15/042 if the devices monitors with fuel consumption, ignition, compression, load, multiple diagnostic stations, test station in series;</p> <p><i>(through)</i></p> <p>And if several parameter are monitored at the same time: G01M 15/05 (see also G07C 5/0808, diagnosing performance data of vehicles).</p>

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		G01M 15/05 (see also G07C 5/0808, diagnosing performance data of vehicles).	
G01M 15/00	Relationships with other classification places	G01L covers instruments which can be used for testing of machine parts (gearing, transmission mechanisms), of steering or rolling behavior of vehicles, e.g. measuring efficiency, steering angles, steering forces, but not specially adapted for these purposes.	<p><u>Replace</u> the paragraph in the Relationships with other classification places section with the following:</p> <p>G01L covers instruments which can be used for testing of machine parts, e.g. gearing, transmission mechanisms, of steering or rolling behavior of vehicles, e.g. measuring efficiency, steering angles, steering forces, but not specially adapted for these purposes.</p>
G01M 15/00	Informative references	<p>Lubrication of combustion engines F01M</p> <p>Testing positive displacement machines for liquids, pumps, pumping installation F04B 51/00</p> <p>Testing of valves F16K 37/0075</p> <p>Knock detection in internal combustion engines G01L 23/221</p>	<p><u>Delete</u> these <u>four</u> rows from the Informative references table:</p> <p>Lubrication of combustion engines F01M</p> <p>Testing positive displacement machines for liquids, pumps, pumping installation F04B 51/00</p> <p>Testing of valves F16K 37/0075</p> <p>Knock detection in internal combustion engines G01L 23/221</p>

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<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
G01M 15/00	Informative references		<p><u>Insert</u> in the Informative references table the following three <u>new</u> rows:</p> <p>Devices for measuring, signaling, controlling, or distributing tyre pressure or temperature, specially adapted for mounting on vehicles B60C 23/00</p> <p>Devices or apparatus for measuring tyre pressure or the pressure in other inflated bodies G01L 17/00</p> <p>Investigating machinability by cutting tools; investigating the cutting ability of tools G01N 3/58</p>
G01M 17/00	Definition statement	<p>Testing of machine parts, such as: sealing rings, gearings, power-transmitting couplings or clutches, power-transmitting endless, e.g. belts, chains, bearings.</p> <p>Testing of engines, e.g. by monitoring different engine parameters: pressure, temperature, velocity, vibration, and power, detecting misfire,</p>	<p><u>Replace</u> all text in the Definitions statement section with the following text:</p> <p>Testing of different parts of vehicles, e.g. wheels, tyres, endless-tracks, suspension, or of damping as a part of wheeled or endless-traced vehicles or suspension, axles, wheels suspension, or of axles as a part of railway vehicles.</p>

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<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
		<p>exhaust gases, combustion flame.</p> <p>Testing of different parts of vehicles, e.g. wheels, tyres, endless-tracks, suspension, or of damping as a part of wheeled or endless-tracked vehicles or suspension, axles, wheels suspension, or of axles as a part of railway vehicles.</p>	
G01M 17/00	Relationships with other classification places	G01L covers instruments which can be used for testing of machine parts (gearing, transmission mechanisms), of steering or rolling behaviour of vehicles, e.g. measuring efficiency, steering angles, steering forces, but not specially adapted for these purposes.	<p><u>Replace</u> all text in the Relationships with other classification places section with the following:</p> <p>G01L covers instruments which can be used for machine parts, e.g. gearing, transmission mechanisms, of steering or rolling behavior of vehicles, e.g. measuring efficiency, steering angles, steering forces, but not specially adapted for these purposes.</p>

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<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
G01M 17/00	Informative references		<p><u>Delete</u> the following row from the Informative references table:</p> <p>Testing of electric installation on transport means G01R 31/006</p>
G01M 17/00	Informative references		<p><u>Insert</u> in the Informative references table the following <u>new</u> rows:</p> <p>Monitoring or diagnostic devices for exhaust-gas treatment apparatus F01N 11/00</p> <p>Indicating or supervising devices of internal-combustion engines F02B 77/08</p> <p>Running-in of internal-combustion engines F02B 79/00</p> <p>Controlling combustion engines F02D</p> <p>Rocket-engine plants characterised by specially adapted arrangements for testing or measuring F02K 9/96</p> <p>Apparatus for testing, tuning or synchronising carburetors, e.g. carburetor flow stands F02M 19/01</p>

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<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
			<p>Testing fuel-injection apparatus F02M 65/00</p> <p>Testing of ignition installations peculiar to internal-combustion engines F02P 17/00</p> <p>Testing of ignition installations of combustion apparatus F23Q 23/00</p> <p>Devices for determining the value of power, e.g. by measuring and simultaneously multiplying the values of tractive or propulsive force and velocity G01L 3/24</p> <p>Determining the characteristic of torque in relation to revolutions per unit of time G01L 5/26</p> <p>Devices for detecting or indicating knocks in internal-combustion engines G01L 23/22</p> <p>Devices for measuring pressure in inlet or exhaust ducts of internal-combustion engines G01L 23/24</p>

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<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
			<p>Means for indicating positions or pistons or cranks of internal-combustion engines by measuring pressure G01L 23/30</p> <p>Testing or calibrating of apparatus for measuring force, torque, work, mechanical power, or mechanical efficiency G01L 25/00</p> <p>Testing or calibrating of apparatus for measuring fluid pressure G01L 27/00</p> <p>Pressure-testing G01N 3/12</p> <p>Investigating machinability by cutting tools; investigating the cutting ability of tools G01N 3/58</p>

NOTES:

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- The table above is used for corrections or modifications to existing definitions, e.g. delete an entire definition or part thereof; propose new wording or modify wording of a section, change the symbol the definition is associated with, change or delete a reference symbol, etc.
- Do not delete (F) symbol definitions.