**CPC**  
**COOPERATIVE PATENT CLASSIFICATION**

**G**  
**PHYSICS**  
*(NOTES omitted)*

**INSTRUMENTS**

**G08**  
**SIGNALLING**

**G08C**  
**TRANSMISSION SYSTEMS FOR MEASURED VALUES, CONTROL OR SIMILAR SIGNALS** *(fluid pressure transmission systems F15B; sensing members for specific physical variables, see the relevant subclasses, e.g. G01 or H01; indicators or recorders, see the relevant subclasses, e.g. G01D, G09F; mechanical means for transferring the output of a sensing member G01D 5/00; means for converting the output of the sensing member into a different variable G01D 5/00; self-balancing bridges G01R; position control in general G05D 3/00; mechanical control systems G05G; systems for transmitting "on/off" signals only, systems for transmitting alarm conditions G08B; order telegraph systems G08B 9/00; generating electric pulses H03K; coding, decoding or code conversion H03M; transmission of digital information H04L; selective calling from one station to another H04Q 9/00)*

**WARNING**

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

| 13/00 | Arrangements for influencing the relationship between signals at input and output, e.g. differentiating, delaying, (transferring the output of a sensing member to an indicating or recording part not yielding momentary value G01D 1/00; systems for control of position involving comparison between actual and desired values G05D 3/00; computing G06) |
| 13/02 | . to yield a signal which is a function of two or more signals, e.g. sum, product |

| 15/00 | Arrangements characterised by the use of multiplexing for the transmission of a plurality of signals over a common path *(multiplex transmission in general H04J)* |
| 15/02 | . simultaneously, i.e. using frequency division |
| 15/04 | . . the signals being modulated on carrier frequencies |
| 15/06 | . successively, i.e. using time division |
| 15/08 | . . the signals being represented by amplitude of current or voltage in transmission link |
| 15/10 | . . the signals being represented by frequencies or phase of current or voltage in transmission link |
| 15/12 | . . the signals being represented by pulse characteristics in transmission link |

| 17/00 | Arrangements for transmitting signals characterised by the use of a wireless electrical link |
| 17/02 | . using a radio link |
| 17/04 | . using magnetically coupled devices |
| 17/06 | . using capacity coupling |
| 19/00 | Electric signal transmission systems *(G08C 17/00 takes precedence)* |

<p>| 19/02 | . in which the signal transmitted is magnitude of current or voltage <em>(G08C 19/36, G08C 19/38 take precedence)</em> |
| 19/05 | . . (using fixed values of magnitude of current or voltage) |
| 19/04 | . . using variable resistance |
| 19/06 | . . using variable inductance |
| 19/08 | . . . differentially influencing two coils |
| 19/10 | . . using variable capacitance |
| 19/12 | . . in which the signal transmitted is frequency or phase of ac |
| 19/14 | . . using combination of fixed frequencies |
| 19/16 | . . in which transmission is by pulses |
| 19/18 | . . using a variable number of pulses in a train |
| 19/20 | . . . operating on dynamo-electric devices, e.g. step motor |
| 19/22 | . . by varying the duration of individual pulses |
| 19/24 | . . using time shift of pulses |
| 19/26 | . . by varying pulse repetition frequency |
| 19/28 | . . using pulse code |
| 19/30 | . . in which transmission is by selection of one or more conductors or channels from a plurality of conductors or channels <em>(G08C 19/38 takes precedence)</em> |
| 19/32 | . . of one conductor or channel |
| 19/34 | . . of a combination of conductors or channels |
| 19/36 | . . using optical means to convert the input signal <em>(analogue/digital converters per se H03M 1/00; optical analogue digital converters G02F 7/00; contains no documents, see G01D 5/26)</em> |
| 19/38 | . . using dynamo-electric devices <em>(operated by pulses G08C 19/20; dynamo-electric machines per se H02K)</em> |</p>
<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>19/40</td>
<td>of which only the rotor or the stator carries a winding to which a signal is applied, e.g. using step motor</td>
</tr>
<tr>
<td>19/42</td>
<td>. . . having three stator poles</td>
</tr>
<tr>
<td>19/44</td>
<td>. . . having more than three stator poles</td>
</tr>
<tr>
<td>19/46</td>
<td>. . . of which both rotor and stator carry windings (having squirrel-cage rotor G08C 19/40)</td>
</tr>
<tr>
<td>19/48</td>
<td>. . . being the type with a three-phase stator and a rotor fed by constant-frequency ac, e.g. selsyn, magslip</td>
</tr>
</tbody>
</table>

- **21/00** Systems for transmitting the position of an object with respect to a predetermined reference system, e.g. tele-autographic system (converting the pattern of mechanical parameters, e.g. force or presence, into electrical signals G06K 11/00)

- **2200/00** Transmission systems for measured values, control or similar signals

- **2201/00** Transmission systems of control signals via wireless link

- **2201/10** Power supply of remote control devices
- **2201/11** Energy harvesting
- **2201/12** Mechanical energy, e.g. vibration, piezoelectric
- **2201/14** Solar power
- **2201/12** Power saving techniques of remote control or controlled devices
- **2201/20** Binding and programming of remote control devices
- **2201/21** Programming remote control devices via third means
- **2201/30** User interface
- **2201/31** Voice input
- **2201/32** Remote control based on movements, attitude of remote control device
- **2201/33** Remote control using macros, scripts
- **2201/34** Context aware guidance
- **2201/40** Remote control systems using repeaters, converters, gateways
- **2201/41** Remote control of gateways
- **2201/42** Transmitting or receiving remote control signals via a network
- **2201/50** Receiving or transmitting feedback, e.g. replies, status updates, acknowledgements, from the controlled devices
- **2201/51** Remote controlling of devices based on replies, status thereof
- **2201/60** Security, fault tolerance
- **2201/61** Password, biometric
- **2201/62** Rolling code
- **2201/63** Redundant transmissions
- **2201/70** Device selection
- **2201/71** Directional beams
- **2201/72** Additional features
- **2201/90** Remote control based on location and proximity
- **2201/91** Universal remote control
- **2201/92** Remote control using other portable devices, e.g. mobile phone, PDA, laptop
- **2201/93** Smart cards
- **2201/94** Universal remote control
- **2201/95** Remote control using other portable devices, e.g. mobile phone, PDA, laptop
- **2201/96** Smart cards
- **2201/97** Additional features

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