

# CPC COOPERATIVE PATENT CLASSIFICATION

## G PHYSICS (NOTES omitted)

### INSTRUMENTS

#### G08 SIGNALLING (indicating or display devices [per se G09F](#); transmission of pictures [H04N](#))

**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. of [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 | <b>Arrangements for influencing the relationship between signals at input and output, e.g. differentiating, delaying,</b> (transferring the output of a sensing member to an indicating or recording part not yielding momentary value <a href="#">G01D 1/00</a> ; systems for control of position involving comparison between actual and desired values <a href="#">G05D 3/00</a> ; computing <a href="#">G06</a> ) | 19/02  | . in which the signal transmitted is magnitude of current or voltage ( <a href="#">G08C 19/36</a> , <a href="#">G08C 19/38</a> take precedence)  |
| 13/02 | . to yield a signal which is a function of two or more signals, e.g. sum, product   | 19/025 | . . {using fixed values of magnitude of current or voltage}  |
| 15/00 | <b>Arrangements characterised by the use of multiplexing for the transmission of a plurality of signals over a common path</b> (multiplex transmission in general <a href="#">H04J</a> )  | 19/04  | . . using variable resistance  |
| 15/02 | . simultaneously, i.e. using frequency division   | 19/06  | . . using variable inductance  |
| 15/04 | . . the signals being modulated on carrier frequencies  | 19/08  | . . . differentially influencing two coils   |
| 15/06 | . successively, i.e. using time division  | 19/10  | . . using variable capacitance   |
| 15/08 | . . the signals being represented by amplitude of current or voltage in transmission link   | 19/12  | . in which the signal transmitted is frequency or phase of ac  |
| 15/10 | . . the signals being represented by frequencies or phase of current or voltage in transmission link  | 19/14  | . . using combination of fixed frequencies   |
| 15/12 | . . the signals being represented by pulse characteristics in transmission link   | 19/16  | . in which transmission is by pulses   |
| 17/00 | <b>Arrangements for transmitting signals characterised by the use of a wireless electrical link</b>   | 19/18  | . . using a variable number of pulses in a train   |
| 17/02 | . using a radio link  | 19/20  | . . . operating on dynamo-electric devices, e.g. step motor  |
| 17/04 | . using magnetically coupled devices  | 19/22  | . . by varying the duration of individual pulses   |
| 17/06 | . using capacity coupling   | 19/24  | . . using time shift of pulses   |
| 19/00 | <b>Electric signal transmission systems</b> ( <a href="#">G08C 17/00</a> takes precedence)  | 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 ( <a href="#">G08C 19/38</a> takes precedence)  |
|       |   | 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 (analogue/digital converters <a href="#">per se H03M 1/00</a> ; {optical analogue digital converters <a href="#">G02F 7/00</a> ; contains no documents, <a href="#">see G01D 5/26</a> }) |
|       |   | 19/38  | . using dynamo-electric devices (operated by pulses <a href="#">G08C 19/20</a> ; dynamo-electric machines <a href="#">per se H02K</a> )  |

19/40	<ul style="list-style-type: none"> <li>of which only the rotor or the stator carries a winding to which a signal is applied, e.g. using step motor</li> </ul>	2201/90	<ul style="list-style-type: none"> <li>Additional features</li> </ul>
19/42	<ul style="list-style-type: none"> <li>having three stator poles</li> </ul>	2201/91	<ul style="list-style-type: none"> <li>Remote control based on location and proximity</li> </ul>
19/44	<ul style="list-style-type: none"> <li>having more than three stator poles</li> </ul>	2201/92	<ul style="list-style-type: none"> <li>Universal remote control</li> </ul>
19/46	<ul style="list-style-type: none"> <li>of which both rotor and stator carry windings (having squirrel-cage rotor <a href="#">G08C 19/40</a>)</li> </ul>	2201/93	<ul style="list-style-type: none"> <li>Remote control using other portable devices, e.g. mobile phone, PDA, laptop</li> </ul>
19/48	<ul style="list-style-type: none"> <li>being the type with a three-phase stator and a rotor fed by constant-frequency ac, e.g. selsyn, magflip</li> </ul>	2201/94	<ul style="list-style-type: none"> <li>Smart cards</li> </ul>
<b>21/00</b>	<b>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 <a href="#">G06K 11/00</a>)</b>		
<b>23/00</b>	<b>Non-electrical signal transmission systems, e.g. optical systems</b>		
23/02	<ul style="list-style-type: none"> <li>using infrasonic, sonic or ultrasonic waves</li> </ul>		
23/04	<ul style="list-style-type: none"> <li>using light waves, e.g. infra-red</li> </ul>		
23/06	<ul style="list-style-type: none"> <li>through light guides, e.g. optical fibres</li> </ul>		
<b>25/00</b>	<b>Arrangements for preventing or correcting errors; Monitoring arrangements</b>		
25/02	<ul style="list-style-type: none"> <li>by signalling back receiving station to transmitting station</li> </ul>		
25/04	<ul style="list-style-type: none"> <li>by recording transmitted signals</li> </ul>		
<b>2200/00</b>	<b>Transmission systems for measured values, control or similar signals</b>		
<b>2201/00</b>	<b>Transmission systems of control signals via wireless link</b>		
2201/10	<ul style="list-style-type: none"> <li>Power supply of remote control devices</li> </ul>		
2201/11	<ul style="list-style-type: none"> <li>Energy harvesting</li> </ul>		
2201/112	<ul style="list-style-type: none"> <li>Mechanical energy, e.g. vibration, piezoelectric</li> </ul>		
2201/114	<ul style="list-style-type: none"> <li>Solar power</li> </ul>		
2201/12	<ul style="list-style-type: none"> <li>Power saving techniques of remote control or controlled devices</li> </ul>		
2201/20	<ul style="list-style-type: none"> <li>Binding and programming of remote control devices</li> </ul>		
2201/21	<ul style="list-style-type: none"> <li>Programming remote control devices via third means</li> </ul>		
2201/30	<ul style="list-style-type: none"> <li>User interface</li> </ul>		
2201/31	<ul style="list-style-type: none"> <li>Voice input</li> </ul>		
2201/32	<ul style="list-style-type: none"> <li>Remote control based on movements, attitude of remote control device</li> </ul>		
2201/33	<ul style="list-style-type: none"> <li>Remote control using macros, scripts</li> </ul>		
2201/34	<ul style="list-style-type: none"> <li>Context aware guidance</li> </ul>		
2201/40	<ul style="list-style-type: none"> <li>Remote control systems using repeaters, converters, gateways</li> </ul>		
2201/41	<ul style="list-style-type: none"> <li>Remote control of gateways</li> </ul>		
2201/42	<ul style="list-style-type: none"> <li>Transmitting or receiving remote control signals via a network</li> </ul>		
2201/50	<ul style="list-style-type: none"> <li>Receiving or transmitting feedback, e.g. replies, status updates, acknowledgements, from the controlled devices</li> </ul>		
2201/51	<ul style="list-style-type: none"> <li>Remote controlling of devices based on replies, status thereof</li> </ul>		
2201/60	<ul style="list-style-type: none"> <li>Security, fault tolerance</li> </ul>		
2201/61	<ul style="list-style-type: none"> <li>Password, biometric</li> </ul>		
2201/62	<ul style="list-style-type: none"> <li>Rolling code</li> </ul>		
2201/63	<ul style="list-style-type: none"> <li>Redundant transmissions</li> </ul>		
2201/70	<ul style="list-style-type: none"> <li>Device selection</li> </ul>		
2201/71	<ul style="list-style-type: none"> <li>Directional beams</li> </ul>		