

## SECTION G — PHYSICS

### G08 SIGNALLING

**G08C TRANSMISSION SYSTEMS FOR MEASURED VALUES, CONTROL OR SIMILAR SIGNALS** (fluid pressure transmission systems F15B; mechanical means for transferring the output of a sensing member into a different variable G01D 5/00; mechanical control systems G05G) [4]

#### Subclass index

##### TRANSMISSION SYSTEMS IN GENERAL

Electric; non-electric.....19/00, 23/00

SYSTEMS FOR TRANSMITTING THE POSITION OF AN OBJECT.....21/00

##### ARRANGEMENTS CHARACTERISED BY THE METHOD OF TRANSMISSION

Multiplex; use of a wireless electrical link.....15/00, 17/00

##### PROCESSING SIGNALS

Differentiating, delaying.....13/00

MONITORING, PREVENTING OR CORRECTING ERRORS.....25/00

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| 13/00 | <b>Arrangements for influencing the relationship between signals at input and output, e.g. differentiating, delaying</b>  | 19/20 | <ul style="list-style-type: none"> <li>• • • operating on dynamo-electric devices, e.g. step motor</li> </ul>  |
| 13/02 | <ul style="list-style-type: none"> <li>• to yield a signal which is a function of two or more signals, e.g. sum, product</li> </ul>                             | 19/22 | <ul style="list-style-type: none"> <li>• • by varying the duration of individual pulses</li> </ul>   |
| 15/00 | <b>Arrangements characterised by the use of multiplexing for the transmission of a plurality of signals over a common path</b>                                  | 19/24 | <ul style="list-style-type: none"> <li>• • using time shift of pulses</li> </ul>   |
| 15/02 | <ul style="list-style-type: none"> <li>• simultaneously, i.e. using frequency division</li> </ul>   | 19/26 | <ul style="list-style-type: none"> <li>• • by varying pulse repetition frequency</li> </ul>  |
| 15/04 | <ul style="list-style-type: none"> <li>• • the signals being modulated on carrier frequencies</li> </ul>  | 19/28 | <ul style="list-style-type: none"> <li>• • using pulse code</li> </ul>   |
| 15/06 | <ul style="list-style-type: none"> <li>• successively, i.e. using time division</li> </ul>  | 19/30 | <ul style="list-style-type: none"> <li>• in which transmission is by selection of one or more conductors or channels from a plurality of conductors or channels (G08C 19/38 takes precedence)</li> </ul> |
| 15/08 | <ul style="list-style-type: none"> <li>• • the signals being represented by amplitude of current or voltage in transmission link</li> </ul>                     | 19/32 | <ul style="list-style-type: none"> <li>• • of one conductor or channel</li> </ul>  |
| 15/10 | <ul style="list-style-type: none"> <li>• • the signals being represented by frequencies or phase of current or voltage in transmission link</li> </ul>          | 19/34 | <ul style="list-style-type: none"> <li>• • of a combination of conductors or channels</li> </ul>   |
| 15/12 | <ul style="list-style-type: none"> <li>• • the signals being represented by pulse characteristics in transmission link</li> </ul>                               | 19/36 | <ul style="list-style-type: none"> <li>• using optical means to convert the input signal</li> </ul>  |
| 17/00 | <b>Arrangements for transmitting signals characterised by the use of a wireless electrical link [6]</b>   | 19/38 | <ul style="list-style-type: none"> <li>• using dynamo-electric devices (operated by pulses G08C 19/20)</li> </ul>  |
| 17/02 | <ul style="list-style-type: none"> <li>• using a radio link [6]</li> </ul>  | 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>  |
| 17/04 | <ul style="list-style-type: none"> <li>• using magnetically coupled devices [6]</li> </ul>  | 19/42 | <ul style="list-style-type: none"> <li>• • • having three stator poles</li> </ul>  |
| 17/06 | <ul style="list-style-type: none"> <li>• using capacity coupling [6]</li> </ul>   | 19/44 | <ul style="list-style-type: none"> <li>• • • having more than three stator poles</li> </ul>  |
| 19/00 | <b>Electric signal transmission systems (G08C 17/00 takes precedence)</b>   | 19/46 | <ul style="list-style-type: none"> <li>• • of which both rotor and stator carry windings (having squirrel-cage rotor G08C 19/40)</li> </ul>  |
| 19/02 | <ul style="list-style-type: none"> <li>• in which the signal transmitted is magnitude of current or voltage (G08C 19/36, G08C 19/38 take precedence)</li> </ul> | 19/48 | <ul style="list-style-type: none"> <li>• • • being of the type with a three-phase stator and a rotor fed by constant-frequency ac, e.g. selsyn, magflip</li> </ul>                                       |
| 19/04 | <ul style="list-style-type: none"> <li>• • using variable resistance</li> </ul>   | 21/00 | <b>Systems for transmitting the position of an object with respect to a predetermined reference system, e.g. tele-autographic system [5]</b>   |
| 19/06 | <ul style="list-style-type: none"> <li>• • using variable inductance</li> </ul>   | 23/00 | <b>Non-electric signal transmission systems, e.g. optical systems</b>  |
| 19/08 | <ul style="list-style-type: none"> <li>• • • differentially influencing two coils</li> </ul>  | 23/02 | <ul style="list-style-type: none"> <li>• using acoustic waves [6]</li> </ul>   |
| 19/10 | <ul style="list-style-type: none"> <li>• • using variable capacitance</li> </ul>  | 23/04 | <ul style="list-style-type: none"> <li>• using light waves, e.g. infra-red [6]</li> </ul>  |
| 19/12 | <ul style="list-style-type: none"> <li>• in which the signal transmitted is frequency or phase of ac</li> </ul>   | 23/06 | <ul style="list-style-type: none"> <li>• • through light guides, e.g. optical fibres [6]</li> </ul>  |
| 19/14 | <ul style="list-style-type: none"> <li>• • using combination of fixed frequencies</li> </ul>  | 25/00 | <b>Arrangements for preventing or correcting errors; Monitoring arrangements</b>   |
| 19/16 | <ul style="list-style-type: none"> <li>• in which transmission is by pulses</li> </ul>  | 25/02 | <ul style="list-style-type: none"> <li>• by signalling back from receiving station to transmitting station</li> </ul>  |
| 19/18 | <ul style="list-style-type: none"> <li>• • using a variable number of pulses in a train</li> </ul>  |       |  |

## **G08C**

- 25/04
- by recording transmitted signals