

# Clasificación Internacional de patentes

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Búsqueda “IC:(G05 A01)”

Cuadro 1: Clasificaciones más frecuentes al nivel A01B en la base de Instasoil

IPC	Definición	N
G01N	INVESTIGATING OR ANALYSING MATERIALS BY DETERMINING THEIR CHEMICAL OR PHYSICAL PROPERTIES (measuring or testing processes other than immunoassay, involving enzymes or microorganisms C12M, C12Q)	336
G06Q	DATA PROCESSING SYSTEMS OR METHODS, SPECIALLY ADAPTED FOR ADMINISTRATIVE, COMMERCIAL, FINANCIAL, MANAGERIAL, SUPERVISORY OR FORECASTING PURPOSES; SYSTEMS OR METHODS SPECIALLY ADAPTED FOR ADMINISTRATIVE, COMMERCIAL, FINANCIAL, MANAGERIAL, SUPERVISORY OR FORECASTING PURPOSES, NOT OTHERWISE PROVIDED FOR	209
A01G	HORTICULTURE; CULTIVATION OF VEGETABLES, FLOWERS, RICE, FRUIT, VINES, HOPS OR SEAWEED; FORESTRY; WATERING (picking of fruits, vegetables, hops or the like A01D0046000000; propagating unicellular algae C12N0001120000)	172
G01D	MEASURING NOT SPECIALLY ADAPTED FOR A SPECIFIC VARIABLE; ARRANGEMENTS FOR MEASURING TWO OR MORE VARIABLES NOT COVERED BY A SINGLE OTHER SUBCLASS; TARIFF METERING APPARATUS; TRANSFERRING OR TRANSDUCING ARRANGEMENTS NOT SPECIALLY ADAPTED FOR A SPECIFIC VARIABLE; MEASURING OR TESTING NOT OTHERWISE PROVIDED FOR	128
G05B	CONTROL OR REGULATING SYSTEMS IN GENERAL; FUNCTIONAL ELEMENTS OF SUCH SYSTEMS; MONITORING OR TESTING ARRANGEMENTS FOR SUCH SYSTEMS OR ELEMENTS (fluid-pressure actuators or systems acting by means of fluids in general F15B; valves per se F16K; characterised by mechanical features only G05G; sensitive elements, see the appropriate subclasses, e.g. G12B, subclasses of G01, H01; correcting units, see the appropriate subclasses, e.g. H02K)	100
G06F	ELECTRIC DIGITAL DATA PROCESSING (computer systems based on specific computational models G06N)	92

Cuadro 1: Clasificaciones más frecuentes al nivel A01B en la base de Instasoil (*continued*)

IPC	Definición	N
G05D	SYSTEMS FOR CONTROLLING OR REGULATING NON-ELECTRIC VARIABLES (for continuous casting of metals B22D0011160000;valves per seF16K;sensing non-electric variables, see the relevant subclasses of G01;for regulating electric or magnetic variables G05F)	89
G08C	TRANSMISSION SYSTEMS FOR MEASURED VALUES, CONTROL OR SIMILAR SIGNALS (fluid pressure transmission systems F15B;Â mechanical means for transferring the output of a sensing member into a different variable G01D0005000000;Â mechanical control systems G05G)	37
A01B	SOIL WORKING IN AGRICULTURE OR FORESTRY; PARTS, DETAILS, OR ACCESSORIES OF AGRICULTURAL MACHINES OR IMPLEMENTS, IN GENERAL (making or covering furrows or holes for sowing, planting or manuring A01C0005000000;machines for harvesting root crops A01D;mowers convertible to soil working apparatus or capable of soil working A01D0042040000;mowers combined with soil working implements A01D0043120000;soil working for engineering purposes E01, E02, E21)	33
G06K	RECOGNITION OF DATA; PRESENTATION OF DATA; RECORD CARRIERS; HANDLING RECORD CARRIERS (printing per seB41J)	28
H04L	TRANSMISSION OF DIGITAL INFORMATION, e.g. TELEGRAPHIC COMMUNICATION (arrangements common to telegraphic and telephonic communication H04M)	22
G06T	IMAGE DATA PROCESSING OR GENERATION, IN GENERAL	17
G01B	MEASURING LENGTH, THICKNESS OR SIMILAR LINEAR DIMENSIONS; MEASURING ANGLES; MEASURING AREAS; MEASURING IRREGULARITIES OF SURFACES OR CONTOURS	16
G01W	METEOROLOGY (radar, sonar, lidar or analogous systems, designed for meteorological use G01S0013950000, G01S0015880000, G01S0017950000)	15
H04W	WIRELESS COMMUNICATION NETWORKS (broadcast communication H04H;communication systems using wireless links for non-selective communication, e.g. wireless extensions H04M0001720000)	14

Cuadro 1: Clasificaciones más frecuentes al nivel A01B en la base de Instasoil (*continued*)

IPC	Definición	N
G08B	SIGNALLING OR CALLING SYSTEMS; ORDER TELEGRAPHHS; ALARM SYSTEMS	10
G01J	MEASUREMENT OF INTENSITY, VELOCITY, SPECTRAL CONTENT, POLARISATION, PHASE OR PULSE CHARACTERISTICS OF INFRA-RED, VISIBLE OR ULTRA-VIOLET LIGHT; COLORIMETRY; RADIATION PYROMETRY	8
G01F	MEASURING VOLUME, VOLUME FLOW, MASS FLOW, OR LIQUID LEVEL; METERING BY VOLUME	7
E02B	HYDRAULIC ENGINEERING (ship-lifting E02C;dredging E02F)	6
H02J	CIRCUIT ARRANGEMENTS OR SYSTEMS FOR SUPPLYING OR DISTRIBUTING ELECTRIC POWER; SYSTEMS FOR STORING ELECTRIC ENERGY	6
B25J	MANIPULATORS; CHAMBERS PROVIDED WITH MANIPULATION DEVICES (robotic devices for individually picking fruits, vegetables, hops or the like A01D0046300000;needle manipulators for surgery A61B0017062000;manipulators associated with rolling mills B21B0039200000;manipulators associated with forging machines B21J0013100000;means for holding wheels or parts thereof B60B0030000000;cranes B66C;arrangements for handling fuel or other materials which are used within nuclear reactors G21C0019000000;structural combination of manipulators with cells or rooms shielded against radiation G21F0007060000)	5
G16Y	INFORMATION AND COMMUNICATION TECHNOLOGY SPECIALLY ADAPTED FOR THE INTERNET OF THINGS [IoT]	5
C05G	MIXTURES OF FERTILISERS COVERED INDIVIDUALLY BY DIFFERENT SUBCLASSES OF CLASS C05; MIXTURES OF ONE OR MORE FERTILISERS WITH ADDITIVES NOT HAVING A SPECIFIC FERTILISING ACTIVITY (organic fertilisers containing added bacterial cultures, mycelia or the like C05F0011080000;organic fertilisers containing plant vitamins or hormones C05F0011100000); FERTILISERS CHARACTERISED BY THEIR FORM	4
E03F	SEWERS; CESSPOOLS	4

C09K	MATERIALS FOR APPLICATIONS NOT OTHERWISE PROVIDED FOR; APPLICATIONS OF MATERIALS NOT OTHERWISE PROVIDED FOR	3
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Cuadro 2: Clasificaciones más frecuentes al nivel A01B1 en la base de Instasoil

IPC	Definición	N
G01N33	Investigating or analysing materials by specific methods not covered by groups G01N0001000000-G01N0031000000	196
G06Q50	Systems or methods specially adapted for specific business sectors, e.g. utilities or tourism (healthcare informatics G16H)	186
G01D21	Measuring or testing not otherwise provided for	125
G06Q10	Administration; Management	102
A01G25	Watering gardens, fields, sports grounds or the like (special apparatus or adaptations for fertilising-liquids A01C0023000000; nozzles or outlets, spraying apparatus B05B)	89
G05B19	Programme-control systems (specific applications, see the relevant places, e.g. A47L0015460000;clocks with attached or built-in means operating any device at a preselected time interval G04C0023000000;marking or sensing record carriers with digital information G06K;information storage G11;time or time-programme switches which automatically terminate their operation after the programme is completed H01H0043000000)	88
G01N1	Sampling; Preparing specimens for investigation (handling materials for automatic analysis G01N0035000000)	84
G05D27	Simultaneous control of variables covered by two or more of main groups G05D0001000000-G05D0025000000	63
A01G9	Cultivation in receptacles, forcing-frames or greenhouses (of mushrooms A01G0018000000; soilless cultivation A01G0031000000); Edging for beds, lawn or the like	57
G01N21	Investigating or analysing materials by the use of optical means, i.e. using sub-millimetre waves, infrared, visible or ultraviolet light (G01N0003000000-G01N0019000000 take precedence)	53
G08C17	Arrangements for transmitting signals characterised by the use of a wireless electrical link	37
G06F17	Digital computing or data processing equipment or methods, specially adapted for specific functions (information retrieval, database structures or file system structures therefor G06F0016000000)	35

Cuadro 2: Clasificaciones más frecuentes al nivel A01B1 en la base de Instasoil (*continued*)

IPC	Definición	N
A01G7	Botany in general	28
G06K9	Methods or arrangements for reading or recognising printed or written characters or for recognising patterns, e.g. fingerprints (methods or arrangements for graph-reading or for converting the pattern of mechanical parameters, e.g. force or presence, into electrical signals G06K0011000000;speech recognition G10L0015000000)	27
G06F19	NA	24
G01N27	Investigating or analysing materials by the use of electric, electrochemical, or magnetic means (G01N0003000000-G01N0025000000 take precedence; measurement or testing of electric or magnetic variables or of electric or magnetic properties of materials G01R)	23
G06F16	Information retrieval; Database structures therefor; File system structures therefor	22
A01B79	Methods for working soil (essentially requiring the use of particular machines, see the relevant groups for the machines)	21
H04L29	Arrangements, apparatus, circuits or systems, not covered by a single one of groups H04L0001000000-H04L0027000000	21
G01N5	Analysing materials by weighing, e.g. weighing small particles separated from a gas or liquid (G01N0009000000 takes precedence)	15
G01W1	Meteorology	15
G06T7	Image analysis	14
G06Q30	Commerce, e.g. shopping or e-commerce	13
H04W4	Services specially adapted for wireless communication networks; Facilities therefor	11
G01B11	Measuring arrangements characterised by the use of optical means (instruments of the types covered by group G01B0009000000per seG01B0009000000)	10

Cuadro 3: Clasificaciones más frecuentes al nivel A01B en la base de Instasoil

N	IPC 1	Definición 1	IPC 2	Definición 2
212	G01N	INVESTIGATING OR ANALYSING MATERIALS BY DETERMINING THEIR CHEMICAL OR PHYSICAL PROPERTIES (measuring or testing processes other than immunoassay, involving enzymes or microorganisms C12M, C12Q)	NA	NA
92	G06Q	DATA PROCESSING SYSTEMS OR METHODS, SPECIALLY ADAPTED FOR ADMINISTRATIVE, COMMERCIAL, FINANCIAL, MANAGERIAL, SUPERVISORY OR FORECASTING PURPOSES; SYSTEMS OR METHODS SPECIALLY ADAPTED FOR ADMINISTRATIVE, COMMERCIAL, FINANCIAL, MANAGERIAL, SUPERVISORY OR FORECASTING PURPOSES, NOT OTHERWISE PROVIDED FOR	NA	NA
51	A01G	HORTICULTURE; CULTIVATION OF VEGETABLES, FLOWERS, RICE, FRUIT, VINES, HOPS OR SEAWEED; FORESTRY; WATERING (picking of fruits, vegetables, hops or the like A01D004600000; propagating unicellular algae C12N0001120000)	G01N	INVESTIGATING OR ANALYSING MATERIALS BY DETERMINING THEIR CHEMICAL OR PHYSICAL PROPERTIES (measuring or testing processes other than immunoassay, involving enzymes or microorganisms C12M, C12Q)

Cuadro 3: Clasificaciones más frecuentes al nivel A01B en la base de Instasoil (*continued*)

N	IPC 1	Definición 1	IPC 2	Definición 2
44	A01G	HORTICULTURE; CULTIVATION OF VEGETABLES, FLOWERS, RICE, FRUIT, VINES, HOPS OR SEAWEED; FORESTRY; WATERING (picking of fruits, vegetables, hops or the like A01D004600000; propagating unicellular algae C12N0001120000)	G06Q	DATA PROCESSING SYSTEMS OR METHODS, SPECIALLY ADAPTED FOR ADMINISTRATIVE, COMMERCIAL, FINANCIAL, MANAGERIAL, SUPERVISORY OR FORECASTING PURPOSES; SYSTEMS OR METHODS SPECIALLY ADAPTED FOR ADMINISTRATIVE, COMMERCIAL, FINANCIAL, MANAGERIAL, SUPERVISORY OR FORECASTING PURPOSES, NOT OTHERWISE PROVIDED FOR
43	G05D	SYSTEMS FOR CONTROLLING OR REGULATING NON-ELECTRIC VARIABLES (for continuous casting of metals B22D0011160000; valves per se F16K; sensing non-electric variables, see the relevant subclasses of G01; for regulating electric or magnetic variables G05F)	NA	NA

Cuadro 3: Clasificaciones más frecuentes al nivel A01B en la base de Instasoil (*continued*)

N	IPC 1	Definición 1	IPC 2	Definición 2
41	G05B	CONTROL OR REGULATING SYSTEMS IN GENERAL; FUNCTIONAL ELEMENTS OF SUCH SYSTEMS; MONITORING OR TESTING ARRANGEMENTS FOR SUCH SYSTEMS OR ELEMENTS (fluid-pressure actuators or systems acting by means of fluids in general F15B;valves per seF16K;characterised by mechanical features only G05G;sensitive elements, see the appropriate subclasses, e.g. G12B, subclasses of G01, H01;correcting units, see the appropriate subclasses, e.g. H02K)	NA	NA
40	G06F	ELECTRIC DIGITAL DATA PROCESSING (computer systems based on specific computational models G06N)	G06Q	DATA PROCESSING SYSTEMS OR METHODS, SPECIALLY ADAPTED FOR ADMINISTRATIVE, COMMERCIAL, FINANCIAL, MANAGERIAL, SUPERVISORY OR FORECASTING PURPOSES; SYSTEMS OR METHODS SPECIALLY ADAPTED FOR ADMINISTRATIVE, COMMERCIAL, FINANCIAL, MANAGERIAL, SUPERVISORY OR FORECASTING PURPOSES, NOT OTHERWISE PROVIDED FOR

Cuadro 3: Clasificaciones más frecuentes al nivel A01B en la base de Instasoil (*continued*)

N	IPC 1	Definición 1	IPC 2	Definición 2
39	G01D	MEASURING NOT SPECIALLY ADAPTED FOR A SPECIFIC VARIABLE; ARRANGEMENTS FOR MEASURING TWO OR MORE VARIABLES NOT COVERED BY A SINGLE OTHER SUBCLASS; TARIFF METERING APPARATUS; TRANSFERRING OR TRANSDUCING ARRANGEMENTS NOT SPECIALLY ADAPTED FOR A SPECIFIC VARIABLE; MEASURING OR TESTING NOT OTHERWISE PROVIDED FOR	NA	NA
30	A01G	HORTICULTURE; CULTIVATION OF VEGETABLES, FLOWERS, RICE, FRUIT, VINES, HOPS OR SEAWEED; FORESTRY; WATERING (picking of fruits, vegetables, hops or the like A01D004600000; propagating unicellular algae C12N0001120000)	G05D	SYSTEMS FOR CONTROLLING OR REGULATING NON-ELECTRIC VARIABLES (for continuous casting of metals B22D0011160000;valves per seF16K;sensing non-electric variables, see the relevant subclasses of G01;for regulating electric or magnetic variables G05F)

Cuadro 3: Clasificaciones más frecuentes al nivel A01B en la base de Instasoil (*continued*)

N	IPC 1	Definición 1	IPC 2	Definición 2
28	A01G	HORTICULTURE; CULTIVATION OF VEGETABLES, FLOWERS, RICE, FRUIT, VINES, HOPS OR SEAWEED; FORESTRY; WATERING (picking of fruits, vegetables, hops or the like A01D004600000; propagating unicellular algae C12N0001120000)	G05B	CONTROL OR REGULATING SYSTEMS IN GENERAL; FUNCTIONAL ELEMENTS OF SUCH SYSTEMS; MONITORING OR TESTING ARRANGEMENTS FOR SUCH SYSTEMS OR ELEMENTS (fluid-pressure actuators or systems acting by means of fluids in general F15B;valves per seF16K;characterised by mechanical features only G05G;sensitive elements, see the appropriate subclasses, e.g. G12B, subclasses of G01, H01;correcting units, see the appropriate subclasses, e.g. H02K)
23	G06F	ELECTRIC DIGITAL DATA PROCESSING (computer systems based on specific computational models G06N)	NA	NA

Cuadro 3: Clasificaciones más frecuentes al nivel A01B en la base de Instasoil (*continued*)

N	IPC 1	Definición 1	IPC 2	Definición 2
20	G01D	MEASURING NOT SPECIALLY ADAPTED FOR A SPECIFIC VARIABLE; ARRANGEMENTS FOR MEASURING TWO OR MORE VARIABLES NOT COVERED BY A SINGLE OTHER SUBCLASS; TARIFF METERING APPARATUS; TRANSFERRING OR TRANSDUCING ARRANGEMENTS NOT SPECIALLY ADAPTED FOR A SPECIFIC VARIABLE; MEASURING OR TESTING NOT OTHERWISE PROVIDED FOR	G05B	CONTROL OR REGULATING SYSTEMS IN GENERAL; FUNCTIONAL ELEMENTS OF SUCH SYSTEMS; MONITORING OR TESTING ARRANGEMENTS FOR SUCH SYSTEMS OR ELEMENTS (fluid-pressure actuators or systems acting by means of fluids in general F15B;valves per seF16K;characterised by mechanical features only G05G;sensitive elements, see the appropriate subclasses, e.g. G12B, subclasses of G01, H01;correcting units, see the appropriate subclasses, e.g. H02K)
19	A01G	HORTICULTURE; CULTIVATION OF VEGETABLES, FLOWERS, RICE, FRUIT, VINES, HOPS OR SEAWEED; FORESTRY; WATERING (picking of fruits, vegetables, hops or the like A01D0046000000; propagating unicellular algae C12N0001120000)	G01D	MEASURING NOT SPECIALLY ADAPTED FOR A SPECIFIC VARIABLE; ARRANGEMENTS FOR MEASURING TWO OR MORE VARIABLES NOT COVERED BY A SINGLE OTHER SUBCLASS; TARIFF METERING APPARATUS; TRANSFERRING OR TRANSDUCING ARRANGEMENTS NOT SPECIALLY ADAPTED FOR A SPECIFIC VARIABLE; MEASURING OR TESTING NOT OTHERWISE PROVIDED FOR

Cuadro 3: Clasificaciones más frecuentes al nivel A01B en la base de Instasoil (*continued*)

N	IPC 1	Definición 1	IPC 2	Definición 2
19	G01D	MEASURING NOT SPECIALLY ADAPTED FOR A SPECIFIC VARIABLE; ARRANGEMENTS FOR MEASURING TWO OR MORE VARIABLES NOT COVERED BY A SINGLE OTHER SUBCLASS; TARIFF METERING APPARATUS; TRANSFERRING OR TRANSDUCING ARRANGEMENTS NOT SPECIALLY ADAPTED FOR A SPECIFIC VARIABLE; MEASURING OR TESTING NOT OTHERWISE PROVIDED FOR	G01N	INVESTIGATING OR ANALYSING MATERIALS BY DETERMINING THEIR CHEMICAL OR PHYSICAL PROPERTIES (measuring or testing processes other than immunoassay, involving enzymes or microorganisms C12M, C12Q)
16	A01G	HORTICULTURE; CULTIVATION OF VEGETABLES, FLOWERS, RICE, FRUIT, VINES, HOPS OR SEAWEED; FORESTRY; WATERING (picking of fruits, vegetables, hops or the like A01D004600000; propagating unicellular algae C12N0001120000)	G06F	ELECTRIC DIGITAL DATA PROCESSING (computer systems based on specific computational models G06N)

Cuadro 4: Clasificaciones más frecuentes al nivel A01B1 en la base de Instasoil

N	IPC 1	Definición 1	IPC 2	Definición 2
88	G06Q10	Administration; Management	G06Q50	Systems or methods specially adapted for specific business sectors, e.g. utilities or tourism (healthcare informatics G16H)

Cuadro 4: Clasificaciones más frecuentes al nivel A01B1 en la base de Instasoil (*continued*)

N	IPC 1	Definición 1	IPC 2	Definición 2
78	G01N33	Investigating or analysing materials by specific methods not covered by groups G01N0001000000- G01N0031000000	NA	NA
48	G01N1	Sampling; Preparing specimens for investigation (handling) materials for automatic analysis G01N0035000000)	NA	NA
38	G05B19	Programme-control systems (specific applications, see the relevant places, e.g. A47L0015460000;clocks with attached or built-in means operating any device at a preselected time interval G04C0023000000;marking or sensing record carriers with digital information G06K;information storage G11;time or time-programme switches which automatically terminate their operation after the programme is completed H01H0043000000)	NA	NA
38	G05D27	Simultaneous control of variables covered by two or more of main groups G05D0001000000- G05D0025000000	NA	NA
33	G01D21	Measuring or testing not otherwise provided for	NA	NA
27	G06Q50	Systems or methods specially adapted for specific business sectors, e.g. utilities or tourism (healthcare informatics G16H)	NA	NA

Cuadro 4: Clasificaciones más frecuentes al nivel A01B1 en la base de Instasoil (*continued*)

N	IPC 1	Definición 1	IPC 2	Definición 2
26	A01G25	Watering gardens, fields, sports grounds or the like (special apparatus or adaptations for fertilising-liquids A01C0023000000; nozzles or outlets, spraying apparatus B05B)	G06Q50	Systems or methods specially adapted for specific business sectors, e.g. utilities or tourism (healthcare informatics G16H)
20	G01D21	Measuring or testing not otherwise provided for	G05B19	Programme-control systems (specific applications, see the relevant places, e.g. A47L0015460000; clocks with attached or built-in means operating any device at a preselected time interval G04C0023000000; marking or sensing record carriers with digital information G06K; information storage G11; time or time-programme switches which automatically terminate their operation after the programme is completed H01H0043000000)
19	G01N21	Investigating or analysing materials by the use of optical means, i.e. using sub-millimetre waves, infrared, visible or ultraviolet light (G01N0003000000- G01N0019000000 take precedence)	NA	NA
16	G01D21	Measuring or testing not otherwise provided for	G01N33	Investigating or analysing materials by specific methods not covered by groups G01N0001000000- G01N0031000000
16	G01D21	Measuring or testing not otherwise provided for	G08C17	Arrangements for transmitting signals characterised by the use of a wireless electrical link

Cuadro 4: Clasificaciones más frecuentes al nivel A01B1 en la base de Instasoil (*continued*)

N	IPC 1	Definición 1	IPC 2	Definición 2
16	G01N1	Sampling; Preparing specimens for investigation (handling materials for automatic analysis G01N003500000)	G01N33	Investigating or analysing materials by specific methods not covered by groups G01N0001000000-G01N0031000000
15	A01G25	Watering gardens, fields, sports grounds or the like (special apparatus or adaptations for fertilising-liquids A01C002300000; nozzles or outlets, spraying apparatus B05B)	G01N33	Investigating or analysing materials by specific methods not covered by groups G01N0001000000-G01N0031000000
14	A01G25	Watering gardens, fields, sports grounds or the like (special apparatus or adaptations for fertilising-liquids A01C002300000; nozzles or outlets, spraying apparatus B05B)	G05B19	Programme-control systems (specific applications, see the relevant places, e.g. A47L0015460000;clocks with attached or built-in means operating any device at a preselected time interval G04C0023000000;marking or sensing record carriers with digital information G06K;information storage G11;time or time-programme switches which automatically terminate their operation after the programme is completed H01H0043000000)

Cuadro 5: Clasificaciones más frecuentes al nivel A01B1 para cada cluster la base de Instasoil

Cluster	IPC	Definición	N
1	G01N33	Investigating or analysing materials by specific methods not covered by groups G01N0001000000-G01N0031000000	78
1	G01N21	Investigating or analysing materials by the use of optical means, i.e. using sub-millimetre waves, infrared, visible or ultraviolet light (G01N0003000000-G01N0019000000 take precedence)	1

Cuadro 5: Clasificaciones más frecuentes al nivel A01B1 para cada cluster la base de Instasoil (*continued*)

Cluster	IPC	Definición	N
1	G05B19	Programme-control systems (specific applications, see the relevant places, e.g. A47L0015460000;clocks with attached or built-in means operating any device at a preselected time interval G04C0023000000;marking or sensing record carriers with digital information G06K;information storage G11;time or time-programme switches which automatically terminate their operation after the programme is completed H01H0043000000)	1
3	G01N1	Sampling; Preparing specimens for investigation (handling materials for automatic analysis G01N0035000000)	1
4	G01N5	Analysing materials by weighing, e.g. weighing small particles separated from a gas or liquid (G01N0009000000 takes precedence)	9
4	G01N15	Investigating characteristics of particles; Investigating permeability, pore-volume or surface-area of porous materials (identification of microorganisms C12Q)	4
4	G01N25	Investigating or analysing materials by the use of thermal means (G01N0003000000-G01N0023000000 take precedence)	4
6	G05D27	Simultaneous control of variables covered by two or more of main groups G05D0001000000-G05D0025000000	38
9	A01G9	Cultivation in receptacles, forcing-frames or greenhouses (of mushrooms A01G0018000000; soilless cultivation A01G0031000000); Edging for beds, lawn or the like	4
9	A01G7	Botany in general	3
9	H04L29	Arrangements, apparatus, circuits or systems, not covered by a single one of groups H04L0001000000-H04L0027000000	2
9	G08C17	Arrangements for transmitting signals characterised by the use of a wireless electrical link	1
10	G01D21	Measuring or testing not otherwise provided for	2
11	A01G27	Self-acting watering devices, e.g. for flower-pots	1
11	G06Q99	Subject matter not provided for in other groups of this subclass	1
12	A01G25	Watering gardens, fields, sports grounds or the like (special apparatus or adaptations for fertilising-liquids A01C0023000000; nozzles or outlets, spraying apparatus B05B)	19
12	G06Q50	Systems or methods specially adapted for specific business sectors, e.g. utilities or tourism (healthcare informatics G16H)	13

Cuadro 5: Clasificaciones más frecuentes al nivel A01B1 para cada cluster la base de Instasoil (*continued*)

Cluster	IPC	Definición	N
12	A01B79	Methods for working soil (essentially requiring the use of particular machines, see the relevant groups for the machines)	12
14	G06F17	Digital computing or data processing equipment or methods, specially adapted for specific functions (information retrieval, database structures or file system structures therefor G06F0016000000)	13
14	G06K9	Methods or arrangements for reading or recognising printed or written characters or for recognising patterns, e.g. fingerprints (methods or arrangements for graph-reading or for converting the pattern of mechanical parameters, e.g. force or presence, into electrical signals G06K0011000000;speech recognition G10L0015000000)	13
15	A01G29	Root feeders; Injecting fertilisers into the roots	2
15	B25J5	Manipulators mounted on wheels or on carriages (B25J0001000000 takes precedence;programme-controlled manipulators B25J0009000000)	1
15	G01N27	Investigating or analysing materials by the use of electric, electrochemical, or magnetic means (G01N0003000000-G01N0025000000 take precedence; measurement or testing of electric or magnetic variables or of electric or magnetic properties of materials G01R)	1
15	G01N7	Analysing materials by measuring the pressure or volume of a gas or vapour	1
16	G05D22	Control of humidity	2
16	G05D23	Control of temperature (automatic switching arrangements for electric heating apparatus H05B0001020000)	2
16	E03B3	Methods or installations for obtaining or collecting drinking water or tap water (treatment of water C02F)	1
16	E03F5	Sewerage structures	1
16	G01F23	Level indicators	1
16	G01J1	Photometry, e.g. photographic exposure meter (spectrophotometry G01J0003000000;specially adapted for radiation pyrometry G01J0005000000)	1
16	G01K7	Measuring temperature based on the use of electric or magnetic elements directly sensitive to heat (giving results other than momentary value of temperature G01K0003000000)	1
16	G08B21	Alarms responsive to a single specified undesired or abnormal condition and not otherwise provided for	1
16	H04W24	Supervisory, monitoring or testing arrangements	1

Cuadro 5: Clasificaciones más frecuentes al nivel A01B1 para cada cluster la base de Instasoil (*continued*)

Cluster	IPC	Definición	N
16	H04W4	Services specially adapted for wireless communication networks; Facilities therefor	1
16	H04W84	Network topologies	1
17	E02B7	Barrages or weirs; Layout, construction, methods of, or devices for, making same (for protecting banks, coasts, or harbours E02B0003040000; sealings or joints E02B0003160000; handling building or like materials for hydraulic engineering E02D0015000000; foundations in general E02D0027000000)	1
19	A01G31	Soilless cultivation, e.g. hydroponics (growth substrates therefor A01G0024000000; cultivation of seaweed A01G0033000000)	1
19	B05B1	Nozzles, spray heads or other outlets, with or without auxiliary devices such as valves, heating means (B05B0003000000, B05B0005000000, B05B0007000000 take precedence; devices for applying liquids or other fluent materials to surfaces by contact B05C; nozzles for ink-jet printing mechanisms B41J0002135000; nozzles for liquid-dispensing, e.g. in vehicle service stations, B67D0007420000)	1
19	B05B9	Spraying apparatus for discharge of liquid or other fluent material without essentially mixing with gas or vapour (B05B0011000000 takes precedence)	1
19	G01W1	Meteorology	1
22	G06Q10	Administration; Management	1
23	G06F19	NA	15
24	G01N30	Investigating or analysing materials by separation into components using adsorption, absorption or similar phenomena or using ion-exchange, e.g. chromatography (G01N0003000000-G01N0029000000 take precedence)	1
24	G01N31	Investigating or analysing non-biological materials by the use of the chemical methods specified in the subgroups; Apparatus specially adapted for such methods	1
25	H02J7	Circuit arrangements for charging or depolarising batteries or for supplying loads from batteries	1
26	B01F15	Accessories for mixers	1
28	A45F3	Travelling or camp articles (travelling rugs A47G0009060000); Sacks or packs carried on the body (convertible into other articles A45F0004000000)	1
28	E21B7	Special methods or apparatus for drilling (supports for the drilling machine, e.g. derricks or masts, E21B0015000000)	1

Cuadro 5: Clasificaciones más frecuentes al nivel A01B1 para cada cluster la base de Instasoil (*continued*)

Cluster	IPC	Definición	N
28	G01N13	Investigating surface or boundary effects, e.g. wetting power; Investigating diffusion effects; Analysing materials by determining surface, boundary, or diffusion effects (scanning-probe techniques or apparatus G01Q)	1
30	G01N17	Investigating resistance of materials to the weather, to corrosion or to light	3
30	G05D1	Control of position, course, altitude, or attitude of land, water, air, or space vehicles, e.g. automatic pilot (radio navigation systems or analogous systems using other waves G01S)	3

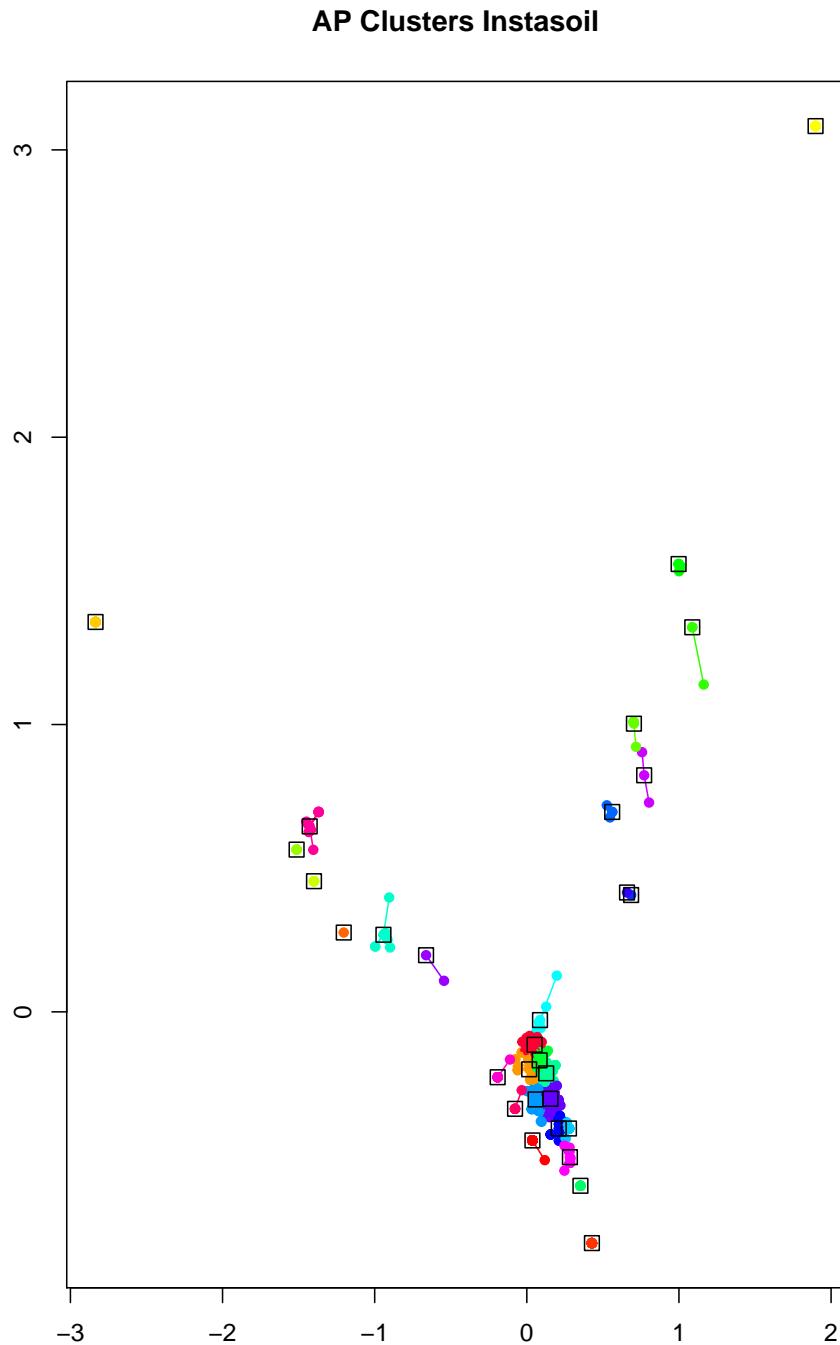


Figura 1: Resultados con AP Clustering

Cuadro 6: Clasificaciones más frecuentes al nivel A01B para cada cluster la base de Instasoil

Cluster	IPC	Definición	N
1	G06Q	DATA PROCESSING SYSTEMS OR METHODS, SPECIALLY ADAPTED FOR ADMINISTRATIVE, COMMERCIAL, FINANCIAL, MANAGERIAL, SUPERVISORY OR FORECASTING PURPOSES; SYSTEMS OR METHODS SPECIALLY ADAPTED FOR ADMINISTRATIVE, COMMERCIAL, FINANCIAL, MANAGERIAL, SUPERVISORY OR FORECASTING PURPOSES, NOT OTHERWISE PROVIDED FOR	92
2	G01N	INVESTIGATING OR ANALYSING MATERIALS BY DETERMINING THEIR CHEMICAL OR PHYSICAL PROPERTIES (measuring or testing processes other than immunoassay, involving enzymes or microorganisms C12M, C12Q)	229
2	G06K	RECOGNITION OF DATA; PRESENTATION OF DATA; RECORD CARRIERS; HANDLING RECORD CARRIERS (printing per seB41J)	13
2	G01B	MEASURING LENGTH, THICKNESS OR SIMILAR LINEAR DIMENSIONS; MEASURING ANGLES; MEASURING AREAS; MEASURING IRREGULARITIES OF SURFACES OR CONTOURS	12
2	G01D	MEASURING NOT SPECIALLY ADAPTED FOR A SPECIFIC VARIABLE; ARRANGEMENTS FOR MEASURING TWO OR MORE VARIABLES NOT COVERED BY A SINGLE OTHER SUBCLASS; TARIFF METERING APPARATUS; TRANSFERRING OR TRANSDUCING ARRANGEMENTS NOT SPECIALLY ADAPTED FOR A SPECIFIC VARIABLE; MEASURING OR TESTING NOT OTHERWISE PROVIDED FOR	10
3	G05B	CONTROL OR REGULATING SYSTEMS IN GENERAL; FUNCTIONAL ELEMENTS OF SUCH SYSTEMS; MONITORING OR TESTING ARRANGEMENTS FOR SUCH SYSTEMS OR ELEMENTS (fluid-pressure actuators or systems acting by means of fluids in general F15B;valves per seF16K;characterised by mechanical features only G05G;sensitive elements, see the appropriate subclasses, e.g. G12B, subclasses of G01, H01;correcting units, see the appropriate subclasses, e.g. H02K)	41

Cuadro 6: Clasificaciones más frecuentes al nivel A01B para cada cluster la base de Instasoil (*continued*)

Cluster	IPC	Definición	N
4	G05D	SYSTEMS FOR CONTROLLING OR REGULATING NON-ELECTRIC VARIABLES (for continuous casting of metals B22D0011160000;valves per seF16K;sensing non-electric variables, see the relevant subclasses of G01;for regulating electric or magnetic variables G05F)	43
5	G06F	ELECTRIC DIGITAL DATA PROCESSING (computer systems based on specific computational models G06N)	20
6	A01G	HORTICULTURE; CULTIVATION OF VEGETABLES, FLOWERS, RICE, FRUIT, VINES, HOPS OR SEAWEED; FORESTRY; WATERING (picking of fruits, vegetables, hops or the like A01D0046000000; propagating unicellular algae C12N0001120000)	9
6	H04L	TRANSMISSION OF DIGITAL INFORMATION, e.g. TELEGRAPHIC COMMUNICATION (arrangements common to telegraphic and telephonic communication H04M)	3
7	A01B	SOIL WORKING IN AGRICULTURE OR FORESTRY; PARTS, DETAILS, OR ACCESSORIES OF AGRICULTURAL MACHINES OR IMPLEMENTS, IN GENERAL (making or covering furrows or holes for sowing, planting or manuring A01C0005000000;machines for harvesting root crops A01D;mowers convertible to soil working apparatus or capable of soil working A01D0042040000;mowers combined with soil working implements A01D0043120000;soil working for engineering purposes E01, E02, E21)	5
8	G08C	TRANSMISSION SYSTEMS FOR MEASURED VALUES, CONTROL OR SIMILAR SIGNALS (fluid pressure transmission systems F15B;Â mechanical means for transferring the output of a sensing member into a different variable G01D0005000000;Â mechanical control systems G05G)	4
10	B01F	MIXING, e.g. DISSOLVING, EMULSIFYING, DISPERSING (mixing paints B44D0003060000)	1
10	F16K	VALVES; TAPS; COCKS; ACTUATING-FLOATS; DEVICES FOR VENTING OR AERATING	1
11	H02J	CIRCUIT ARRANGEMENTS OR SYSTEMS FOR SUPPLYING OR DISTRIBUTING ELECTRIC POWER; SYSTEMS FOR STORING ELECTRIC ENERGY	1

Cuadro 6: Clasificaciones más frecuentes al nivel A01B para cada cluster la base de Instasoil (*continued*)

Cluster	IPC	Definición	N
13	G01J	MEASUREMENT OF INTENSITY, VELOCITY, SPECTRAL CONTENT, POLARISATION, PHASE OR PULSE CHARACTERISTICS OF INFRA-RED, VISIBLE OR ULTRA-VIOLET LIGHT; COLORIMETRY; RADIATION PYROMETRY	7
13	G06T	IMAGE DATA PROCESSING OR GENERATION, IN GENERAL	7

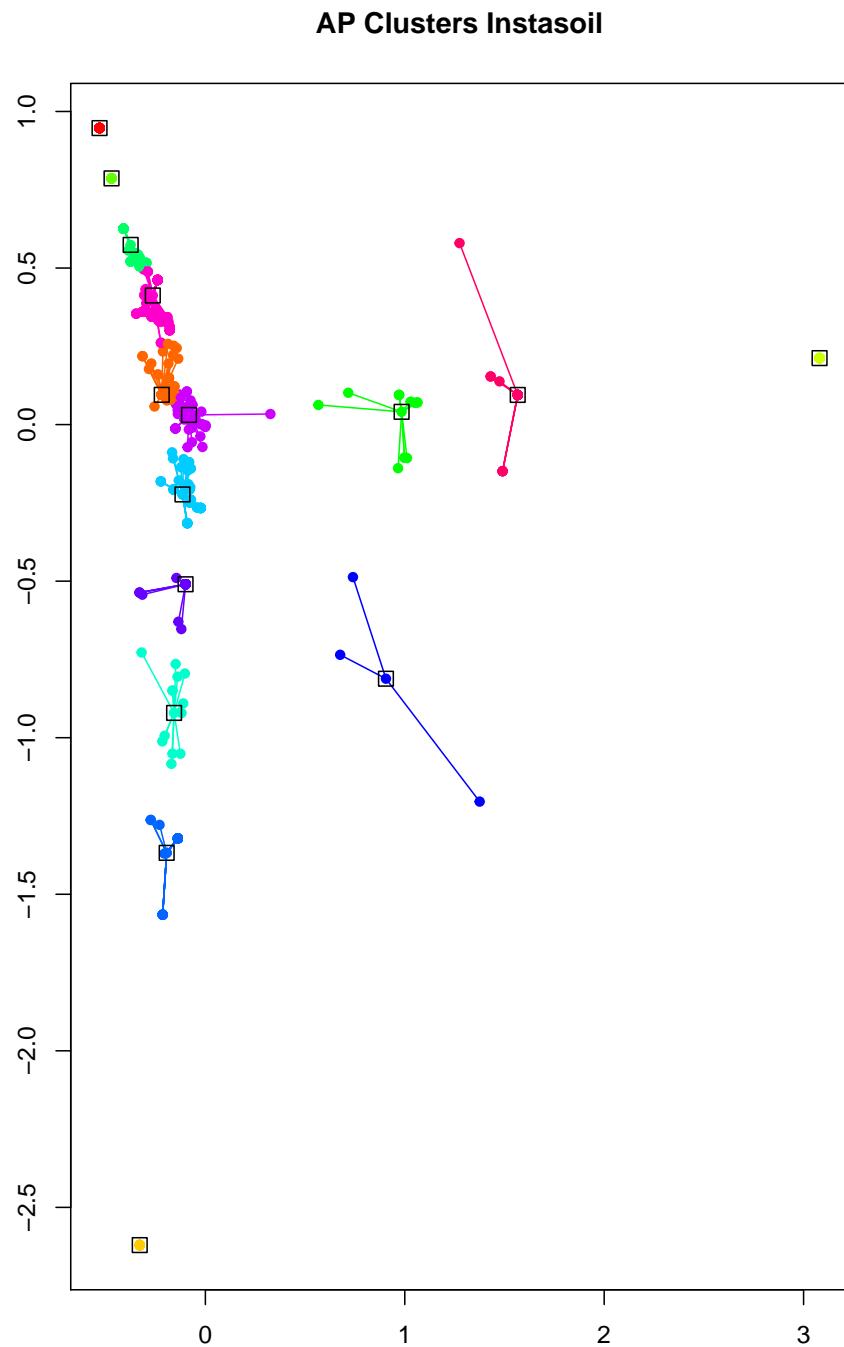


Figura 2: Resultados con AP Clustering

## 1. Clustering by title patents