HEM Search Strategy

- Timeline: 01/01/1991- 27/12/2011
- CTB :- Claims,Title & Abstract
- FS :- Fullspec
- Search Database : Thomsoninnovation

S.No.	Concept	Query	Hits
1	**Home Energy Management [HEM]**	CTB=((Home or inhome OR residential OR building*1 OR office*1 OR House*5 OR Inhouse OR domestic OR commercial OR (end adj user*1)) ADJ2 ((power OR energy OR electric*3 OR current*1 OR voltage*1) ADJ2 (manage*4 OR control*4 OR monitor*3 OR saving ADJ *1 OR information OR consum*5 OR usage)));	2924
2	**Smart grid Keywords**	(((Smart OR Intelli*5 OR Future OR Super OR Inter OR Intra OR Micro OR Macro OR Utility OR Power OR Green OR electric) ADJ2 grid*1) OR Smartgrid*1 OR (Smart ADJ3 (Electric* OR Power OR energy)) OR Intelligrid*1 OR Futuregrid*1 OR Intergrid*1 OR Intragrid*1 OR Supergrid*1 OR microgrid*1 OR macrogrid*1 OR greengrid*1 OR powergrid*1 OR utilitygrid*1 OR intelligentgrid*1 OR electricgrid)	
3	**HEM [CTA] and Smart grid [FS]**	**1 AND 2**	1864
4	**HEM [FS] + User Interface[CTA]**	CTB=((Home or inhome OR residential OR building*1 OR office*1 OR House*5 OR Inhouse OR domestic OR commercial OR (end adj user*1)) SAME ((power OR energy OR electric*3 OR current*1 OR voltage*1) NEAR3 (manage*4 OR control*4 OR monitor*3 OR saving*1 OR optimi?ation OR information OR consum*5 OR usage)) AND (Computer*1 OR Desktop OR Laptop OR Phone*1 OR smartphone*1 OR (Personal ADJ2 digital ADJ2 assitant*1) OR Handset*1 OR Tablet*1 OR (Mobile ADJ2 Terminal*1) OR palm*4 OR ((Handheld OR Portable OR Cellular) ADJ2 Device*1) OR display*1 OR ((Graphical OR (web adj2 based)) ADJ2 user ADJ2 interface*1) OR touchpad*1 OR (touch ADJ2 screen*1) OR iphone*1 OR IPad*1 OR Netbook*1 OR (dashboard ADJ2 screen*1))) AND ALL=(((Smart OR Intelli*5 OR Future OR Super OR Inter OR Intra OR Micro OR Macro OR Utility OR Power OR Green OR electric) ADJ2 grid*1) OR Smartgrid*1 OR (Smart ADJ3 (Electric* OR Power OR energy)) OR Intelligrid*1 OR Futuregrid*1 OR Intergrid*1 OR Intragrid*1 OR Supergrid*1 OR microgrid*1 OR macrogrid*1 OR greengrid*1 OR powergrid*1 OR utilitygrid*1 OR intelligentgrid*1 OR electricgrid);	885
5	**HEM [CTA] + (Gateways or Communication)**	CTB=(((Home or inhome OR residential OR building*1 OR office*1 OR House*5 OR Inhouse OR domestic OR commercial OR (end adj user*1)) NEAR5 ((power OR energy OR electric*3 OR current*1 OR voltage*1) NEAR3 (manage*4 OR control*4 OR monitor*3 OR saving ADJ *1 OR optimi?ation OR information OR consum*5 OR usage))) SAME (Communicat*3 OR gateway*1 OR multispeak OR (wire*4 Near2 Transmi*5) OR (Remote*2 NEAR2 (Access*3 OR Control*4))));	4417
6	**HEM [CTA] + Smart Meters[CTA]**	CTB=((Home or inhome OR residential OR building*1 OR office*1 OR House*5 OR Inhouse OR domestic OR commercial OR (end adj user*1)) NEAR5 ((power OR energy OR electric*3 OR current*1 OR voltage*1) NEAR3 (manage*4 OR control*4 OR monitor*3 OR saving ADJ *1 OR optimi?ation OR information OR consum*5 OR usage))) AND CTB=((((Smart OR utility OR intelligent) ADJ2 (meter*3 OR (Measur*4 ADJ (Device*1 OR unit*1)))) AND (electric*3 OR current*1 OR voltage*1 OR power)) OR ((electric*3 OR power) ADJ2 (meter*3 OR (Measur*4 ADJ (Device*1 OR unit*1)))));	982
7	**Home load management + Smart grid**	CTB=((Home or inhome OR residential OR building*1 OR office*1 OR House*5 OR Inhouse OR domestic OR commercial OR (end adj user*1)) SAME ((thermostat*1 OR (air ADJ2 condition*3) OR refrigerator*1 OR (electric*2 adj2 vehicle*1) OR PHEV*1 OR (wash*3 ADJ2 machin*3) OR television*1 OR fan*1 OR oven*1 OR appliance*1 OR load*1 OR good*1 OR device*1 OR Gadget*1 OR equipment*1) NEAR3 (manage*4 OR control*4 OR monitor*3 OR saving ADJ *1 OR optimi?ation OR information OR consum*5 OR usage)) AND (Electric*3 OR power OR energy OR voltage OR current)) AND ALL=(((Smart OR Intelli*5 OR Future OR Super OR Inter OR Intra OR Micro OR Macro OR Utility OR Power OR Green OR electric) ADJ2 grid*1) OR Smartgrid*1 OR (Smart ADJ3 (Electric* OR Power OR energy)) OR Intelligrid*1 OR Futuregrid*1 OR Intergrid*1 OR Intragrid*1 OR Supergrid*1 OR microgrid*1 OR macrogrid*1 OR greengrid*1 OR powergrid*1 OR utilitygrid*1 OR intelligentgrid*1 OR electricgrid);	1121
8	**Power management PM Classes**	UC=(700291 OR 700292 OR 700293 OR 700294 OR 700295 OR 700297 OR 700298 OR 700299 OR 700300 OR 340506) OR AIOE=(H04W005200 OR H04W005204 OR H04W005230 OR H04W005234 OR G01R001100) OR FTC=(5B011LL01 OR 5B011LL02 OR 5B011LL05 OR 5B011LL06 OR 5B011LL10 OR 5B011LL11 OR 5B011LL12 OR 5B011LL14 OR 5B011LL15 OR 5K048HA31 OR 5K048HA32 OR 5K048HA34 OR 5K048HA35 OR 5K048HA39 OR 3L060AA03) OR MC=(X12-H09));	
9	**Home [KW] + Smart grid [FS]**	CTB=(Home or inhome OR residential OR building*1 OR office*1 OR House*5 OR Inhouse OR domestic OR commercial OR (end adj user*1)) AND ALL=(((Smart OR Intelli*5 OR Future OR Super OR Inter OR Intra OR Micro OR Macro OR Utility OR Power OR Green OR electric) ADJ2 grid*1) OR Smartgrid*1 OR (Smart ADJ3 (Electric* OR Power OR energy)) OR Intelligrid*1 OR Futuregrid*1 OR Intergrid*1 OR Intragrid*1 OR Supergrid*1 OR microgrid*1 OR macrogrid*1 OR greengrid*1 OR powergrid*1 OR utilitygrid*1 OR intelligentgrid*1 OR electricgrid)	
10	**Home [KW] + Smart grid [FS] AND PM [CL]**	**8 AND 9**	472
11	**Home Smart Meters [CTB]**	CTB=((Home or inhome OR residential OR building*1 OR office*1 OR House*5 OR Inhouse OR domestic OR commercial OR (end adj user*1)) SAME ((((Smart OR utility OR intelligent) ADJ2 (meter*3 OR (Measur*4 ADJ (Device*1 OR unit*1)))) AND (electric*3 OR current*1 OR voltage*1 OR power)) OR ((electric*3 OR power) ADJ2 (meter*3 OR (Measur*4 ADJ (Device*1 OR unit*1))))))	
12	**Home Smart Meters [CTB] AND PM [CL]**	**8 AND 11**	435

13	**Home appliances [CTB]**	CTB=((Home or inhome OR residential OR building*1 OR office*1 OR House*5 OR Inhouse OR domestic OR commercial OR (end adj user*1)) SAME (thermostat*1 OR (air ADJ2 condition*3) OR refrigerator*1 OR (electric*2 adj2 vehicle*1) OR PHEV*1 OR (wash*3 ADJ2 machin*3) OR television*1 OR fan*1 OR oven*1 OR appliance*1 OR load*1 OR good*1 OR device*1 OR Gadget*1 OR equipment*1))	
14	**Home Appliances [CTB] AND PM [CL]**	**8 AND 13**	4421
15	**Plug in hybrid vehicles(PHEV) Classes**	(AIOE=(B60R001602 OR B60R001603 OR F24F001100 OR H02J000314) OR FTC=(5G062))	
16	**HEM [CTB] AND PHEV [CL]**	**1 AND 15**	1043
17	**Smart meter Classes**	UC=(702057 OR 702060 OR 702062 OR 702062 OR 702127 OR 700300 OR 340870.02) OR AIOE=(G01R002200) OR FTC=(2G026) OR MC=(X12-H04A OR X12-H04C OR X12-H04D OR X12-H04E));	
18	**HEM [CTB] AND Smart meters[CL]**	**1 AND 17**	1001
19	**Home appliances management [CTB]**	CTB=(((Home or inhome OR residential OR building*1 OR office*1 OR House*5 OR Inhouse OR domestic OR commercial OR (end adj user*1)) SAME (thermostat*1 OR (air ADJ2 condition*3) OR refrigerator*1 OR (electric*2 adj2 vehicle*1) OR PHEV*1 OR (wash*3 ADJ2 machin*3) OR television*1 OR fan*1 OR oven*1 OR appliance*1 OR load*1 OR good*1 OR device*1 OR Gadget*1 OR equipment*1)) NEAR3 (manage*4 OR control*4 OR monitor*3 OR saving*1 OR optimi?ation OR information OR consum*5 OR usage))	
20	**Home appliances management [CTB] AND Smart meters [CL]**	**17 AND 19**	380
21	**Monitoring & control (M&C)Classes**	UC=(702183 OR 702188) OR AIOE=(H04L001226M2B2 OR H04L001226M3A2 OR H04L001228H3B OR G05B001907 OR H04N0005374A OR G05B001904* OR G05B001502) OR FTC=(2F073EE16 OR 2G126 OR 2G013 OR 5B011FF03 OR 5B011FF04 OR 5B011GG01 OR 5B011GG02 OR 5B011GG03 OR 5B011GG04 OR 5B011GG06 OR 5B011GG12 OR 5B011GG13 OR 5B011GG16 OR 5B011GG17 OR 3L030CC10 OR 5G064* OR 5G064AA09) OR MC=(W05-D07A OR W05-D07C OR U24-H04 OR U24-K OR X12-H03A3 OR X12-H04));	
22	**Home energy [CTB] +Smart Grid[FS]**	CTB=((Home or inhome OR residential OR building*1 OR office*1 OR House*5 OR Inhouse OR domestic OR commercial OR (end adj user*1)) NEAR5 (power OR energy OR electric*3 OR current*1 OR voltage*1)) AND ALL=(((Smart OR Intelli*5 OR Future OR Super OR Inter OR Intra OR Micro OR Macro OR Utility OR Power OR Green OR electric) ADJ2 grid*1) OR Smartgrid*1 OR (Smart ADJ3 (Electric* OR Power OR energy)) OR Intelligrid*1 OR Futuregrid*1 OR Intergrid*1 OR Intragrid*1 OR Supergrid*1 OR microgrid*1 OR macrogrid*1 OR greengrid*1 OR powergrid*1 OR utilitygrid*1 OR intelligentgrid*1 OR electricgrid)	
23	**Home energy [CTB] +Smart Grid[FS] AND M&C [CL]**	**21 AND 22**	424
24	**Home Appliances [CTB] +Smart Grid[FS]**	CTB=((Home or inhome OR residential OR building*1 OR office*1 OR House*5 OR Inhouse OR domestic OR commercial OR (end adj user*1)) SAME (thermostat*1 OR (air ADJ2 condition*3) OR refrigerator*1 OR (electric*2 adj2 vehicle*1) OR PHEV*1 OR (wash*3 ADJ2 machin*3) OR television*1 OR fan*1 OR oven*1 OR appliance*1 OR load*1 OR good*1 OR device*1 OR Gadget*1 OR equipment*1)) AND ALL=(((Smart OR Intelli*5 OR Future OR Super OR Inter OR Intra OR Micro OR Macro OR Utility OR Power OR Green OR electric) ADJ2 grid*1) OR Smartgrid*1 OR (Smart ADJ3 (Electric* OR Power OR energy)) OR Intelligrid*1 OR Futuregrid*1 OR Intergrid*1 OR Intragrid*1 OR Supergrid*1 OR microgrid*1 OR macrogrid*1 OR greengrid*1 OR powergrid*1 OR utilitygrid*1 OR intelligentgrid*1 OR electricgrid)	
25	**Home Appliances [CTB] +Smart Grid[FS] AND M&C [CL]**	**21 AND 24**	272
26	**Final Query**	**1 OR 3 OR 4 OR 5 OR 6 OR 7 OR 10 OR 12 OR 14 OR 16 OR 18 OR 20 OR**	**14268 (8860 Families)**