

CPC COOPERATIVE PATENT CLASSIFICATION

Y GENERAL TAGGING OF NEW TECHNOLOGICAL DEVELOPMENTS; GENERAL TAGGING OF CROSS-SECTIONAL TECHNOLOGIES SPANNING OVER SEVERAL SECTIONS OF THE IPC; TECHNICAL SUBJECTS COVERED BY FORMER USPC CROSS-REFERENCE ART COLLECTIONS [XRACs] AND DIGESTS

(NOTES omitted)

Y02 TECHNOLOGIES OR APPLICATIONS FOR MITIGATION OR ADAPTATION AGAINST CLIMATE CHANGE

(NOTES omitted)

Y02B CLIMATE CHANGE MITIGATION TECHNOLOGIES RELATED TO BUILDINGS, e.g. HOUSING, HOUSE APPLIANCES OR RELATED END-USER APPLICATIONS

10/00	Integration of renewable energy sources in buildings	50/00	Energy efficient technologies in elevators, escalators and moving walkways, e.g. energy saving or recuperation technologies
10/10	• Photovoltaic [PV]		
10/20	• Solar thermal	70/00	Technologies for an efficient end-user side electric power management and consumption
10/30	• Wind power	70/10	• Technologies improving the efficiency by using switched-mode power supplies [SMPS], i.e. efficient power electronics conversion e.g. power factor correction or reduction of losses in power supplies or efficient standby modes
10/40	• Geothermal heat-pumps		
10/50	• Hydropower in dwellings		
10/70	• Hybrid systems, e.g. uninterruptible or back-up power supplies integrating renewable energies	70/30	• Systems integrating technologies related to power network operation and communication or information technologies for improving the carbon footprint of the management of residential or tertiary loads, i.e. smart grids as climate change mitigation technology in the buildings sector, including also the last stages of power distribution and the control, monitoring or operating management systems at local level
20/00	Energy efficient lighting technologies, e.g. halogen lamps or gas discharge lamps	70/3225	• • Demand response systems, e.g. load shedding, peak shaving
20/30	• Semiconductor lamps, e.g. solid state lamps [SSL] light emitting diodes [LED] or organic LED [OLED]	70/34	• • Smart metering supporting the carbon neutral operation of end-user applications in buildings
20/40	• Control techniques providing energy savings, e.g. smart controller or presence detection	80/00	Architectural or constructional elements improving the thermal performance of buildings
20/72	• in street lighting	80/10	• Insulation, e.g. vacuum or aerogel insulation
30/00	Energy efficient heating, ventilation or air conditioning [HVAC]	80/22	• Glazing, e.g. vacuum glazing
30/12	• Hot water central heating systems using heat pumps	80/32	• Roof garden systems
30/13	• Hot air central heating systems using heat pumps	90/00	Enabling technologies or technologies with a potential or indirect contribution to GHG emissions mitigation
30/17	• District heating	90/10	• Applications of fuel cells in buildings
30/18	• Domestic hot-water supply systems using recuperated or waste heat	90/20	• Smart grids as enabling technology in buildings sector (smart grids supporting the management or operation of end-user stationary applications in general, or like technologies with no associated climate change mitigation effect Y04S 20/00)
30/52	• Heat recovery pumps, i.e. heat pump based systems or units able to transfer the thermal energy from one area of the premises or part of the facilities to a different one, improving the overall efficiency		
30/54	• Free-cooling systems		
30/56	• Heat recovery units		
30/62	• Absorption based systems		
30/625	• • combined with heat or power generation [CHP], e.g. trigeneration		
30/70	• Efficient control or regulation technologies, e.g. for control of refrigerant flow, motor or heating		
30/90	• Passive houses; Double facade technology		
40/00	Technologies aiming at improving the efficiency of home appliances, e.g. induction cooking or efficient technologies for refrigerators, freezers or dish washers		
40/18	• using renewables, e.g. solar cooking stoves, furnaces or solar heating		