

Title (en)
COMPOSITE HYBRID PANEL, OR BUILDING ELEMENT FOR COMBINED HEATING, COOLING, VENTILATING AND AIR-CONDITIONING

Title (de)
VERBUNDHYBRIDPLATTE ODER KONSTRUKTIONSELEMENT ZUR KOMBINIERTEN ERWÄRMUNG, KÜHLUNG, BELÜFTUNG UND KLIMAREGULIERUNG

Title (fr)
PAROI HYBRIDE COMPOSITE, PANNEAU DE PLAFOND OU DE PLANCHER OU ELEMENT DE CONSTRUCTION DESTINES A DES FONCTIONS DE CHAUFFAGE, REFROIDISSEMENT, VENTILATION, CLIMATISATION ET A D'AUTRES FONCTIONS INTERIEURES

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Application
EP 05817727 A 20050831

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Abstract (en)
[origin: WO2006041418A1] An invention of composite, hybrid radiant/forced and natural convection, integrated, sandwiched, multi-role panel (1) optimally integrates heating, cooling, ventilating, air-conditioning, thermo-electric effect, energy recovery, and energy storage functions at very moderate operating temperatures such that it can directly utilize renewable and waste energy resources having very low exergy. The composite hybrid panel or building element (1) having a diffuser layer (2) that is thermally conductive, a porous layer (3) providing uniform air diffusion, a thermal insulation layer (4) simply attached or embedded or integrated to a building wall ceiling, floor or stands alone for indoor space partitioning purposes.

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