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(71) Applicant (for all designated States except US): **KOREA DISTRICT HEATING CORP.** [KR/KR]; 186, Bundang-dong, Bundang-gu, Seongnam-si, Gyeonggi-do 463-908 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **YOON, Seok-Mann** [KR/KR]; 109-1001, Donga Pungrim Apt., 719, Hagik-dong, Nam-gu, Incheon 402-040 (KR). **LEE, Dae-Young** [KR/KR]; 108-2204, Hanshin Apt., Jegi-dong, Dongdaemun-gu, Seoul 130-060 (KR). **LEE, Hoon** [KR/KR]; 302-202, e-Pyeonhansesang Apt., 1154, Jukjeon 2-dong, Suji-gu, Yongin-si, Gyeonggi-do 448-548

(KR). **KANG, Chang-Ku** [KR/KR]; 880-24, Jeongneung 3-dong, Seongbuk-gu, Seoul 136-854 (KR). **JEONG, Sung-Ook** [KR/KR]; 13-406, Sieyong Apt., Garak 1-dong, Songpa-gu, Seoul 138-741 (KR).

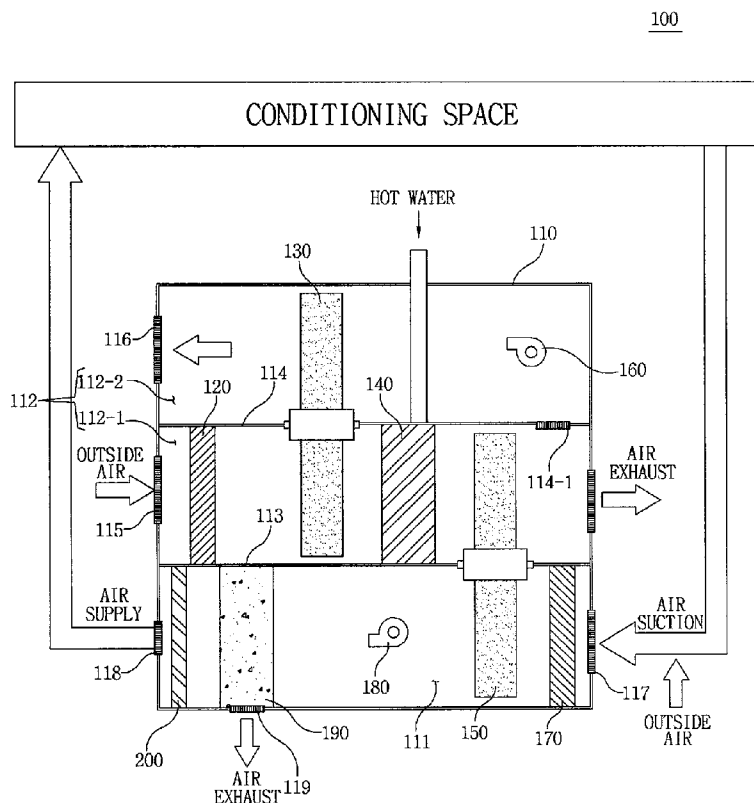
(74) Agent: **SUN, Jong-Chul**; 3F Samhwa Bldg., 738-43, Yeoksam-dong, Gangnam-gu, Seoul 135-080 (KR).

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(54) Title: DEHUMIDIFYING COOLING DEVICE FOR DISTRICT HEATING



(57) Abstract: Disclosed is a dehumidifying cooling device for district heating which comprises; a case having a first partition to divide the interior of the case into a wet channel and a dry channel and a second partition to divided the wet channel into a first wet channel and a second wet channel, a sensible heat exchanger to heat exchange the outside air in the first wet channel with the outside air in the second wet channel, a heating coil for raising the temperature of the outside air in the second wet channel, a rotatable dehumidifying wheel for adsorbing and removing moisture contained in the circulated air within the dry channel, and a regenerative-evaporative cooler for cooling the circulated air in the dry channel. With this configuration, the device can carry out an air cooling operation by use of hot water supplied by district heating systems and gas or oil boilers installed in individual households, thereby achieving a reduced device size via the implementation of the cooling operation under the atmospheric pressure state and reducing manufacturing costs by virtue of a simplified system configuration.



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