

ABSTRACT

Copper oxide powder is deposited in a vapor phase onto a cellular synthetic resin coated with an adhesive
5 beforehand. Thereafter, a copper plate (9 in Fig. 7) with the same metal powder deposited thereon is placed on one surface of the metal powder-bearing cellular synthetic resin and is brought into lightly pressed contact with the surface by a roll press or the like, to thereby form a
10 laminated article. Subsequently, the cellular synthetic resin is burnt off in a combustion furnace, to thereby produce a cellular metal material of the copper oxide on the copper plate (9). Further, the cellular metal material is reduced and sintered in a reducing atmosphere such as
15 that of a hydrogen reduction furnace, to thereby produce a cellular copper material (7) which is provided with the copper plate (9) on one surface thereof. The cellular copper material (7) can be directly used as a material for working a heat transmitting plate in a heat exchanger.

This Sheet Has Been Replaced

