

ABSTRACT

Methods of producing composite compact for permanent magnet and producing permanent magnet blank

The present invention provides methods of producing a composite compact for a permanent magnet and producing a permanent magnet blank for that can be used for a long life period while the magnetic properties of the whole permanent magnet hardly deteriorate even when the permanent magnet is used in an environment in which the magnetic properties thereof are adversely affected.

A high iH_c compact element A that is formed of a magnetic powder M_a being high in intrinsic coercive force and being low in residual magnetic flux density in comparison with the high B_r compact element B is combined and integrated with the high B_r compact element B that is formed of a magnetic powder M_b being high in residual magnetic flux density and being low in intrinsic coercive force in comparison with the high iH_c compact element A.

FIG. 13