

Title (en)

Sintered component made of stainless steel with high corrosion resistance and production method therefor

Title (de)

Gesintertes Pulvermetallbauteil auf rostfreier Stahlbasis mit hoher Korrosionsbeständigkeit sowie Verfahren zu dessen Herstellung

Title (fr)

Corps fritté à base d'acier inoxydable avec une résistance à la corrosion élevée et procédé de production correspondant

Publication

EP 1522601 B1 20130501 (EN)

Application

EP 04023061 A 20040928

Priority

JP 2003341527 A 20030930

Abstract (en)

[origin: EP1522601A2] A sintered component made of stainless steel with high corrosion resistance is obtained by preparing a perovskite composite oxide powder made of rare earth element, transition metal element and oxygen, and a stainless steel powder or a mixed powder having a stainless steel composition, mixing the perovskite composite oxide powder and the stainless steel powder or the mixed powder, whereby a raw powder in which the rare earth element is 0.1 to 12 mass% is prepared, compacting the raw powder in a predetermined shape, whereby a green compact is obtained, and sintering the green compact. The sintered component is a component in which corrosion resistance can be increased without parts of decreasing Cr concentration and precise production processes and process control are not necessary.

IPC 8 full level

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