

Title (en)

Guard rings for vertical shaft impact crusher.

Title (de)

Schutzringe für vertikale Prallmühle.

Title (fr)

Anneaux de protection pour broyeur à impact à axe vertical.

Publication

EP 0166673 A2 19860102 (EN)

Application

EP 85630093 A 19850620

Priority

US 62488684 A 19840627

Abstract (en)

A vertical shaft impact crusher having a rotor (24) mounted for rotation about a vertical axis on a vertical shaft (22) supported by a central bearing, and an impeller mounted on that shaft so that rock fed into the crusher is caught by the spinning impeller and thrown against an adjacent breaker ring (70), and is broken; wherein the crusher is provided with guard rings (63, 144, 142, 203) mounted telescopically and concentrically with the vertical shaft (22) forming a labyrinth seal, and also above and below the impeller to restrict the entrance of rock dust and rock fragments to the rotor shaft (22) and bearing; and a plurality of upper and lower wear plates which line the impeller to retard its erosion and are designed to be easily replaceable.

IPC 1-7

B02C 13/18

IPC 8 full level

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CPC (source: EP)

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Cited by

CN111686903A; US5921484A; EP2698203A1; CN104722375A; GB2347880A; CN104812494A; WO2014026786A3

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