

Title (en)

Apparatus for detecting cracked grain of unhulled rice or hulled rice.

Title (de)

Gerät zum Erkennen von rissigen Körnern ungeschälten oder geschälten Reises.

Title (fr)

Appareil pour la détection du grain fissuré du riz non-décortiqué ou du riz décortiqué.

Publication

**EP 0086289 A1 19830824 (EN)**

Application

**EP 82300724 A 19820212**

Priority

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Abstract (en)

An apparatus for detecting cracked grain of unhulled rice or hulled rice. The apparatus has a rice feeding trough (3) provided at its bottom with a light transmitting window (7) and disposed substantially horizontally or at a gentle gradient. A light quantity detecting device (10) has a light source (8) and a light receiving element (9) disposed to optically oppose each other across the light transmitting window (7) along which the rice grain flows. In operation, the rice grain flowing on the light transmitting window (7) is scanned by the light from the light source (8). If there is a crack in the grain particle, a change is caused in the quantity of light transmitted through the grain particle and received by the light receiving element (9), so that the presence of the crack and hence a cracked rice grain is detected at a high precision.

IPC 1-7

**B07C 5/342**; **G06M 7/04**

IPC 8 full level

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CPC (source: EP)

**B07C 5/3416** (2013.01); **B07C 5/3425** (2013.01); **G06M 7/04** (2013.01)

Citation (search report)

- [A] US 3880289 A 19750429 - GRAY MILTON WELDON
- [A] DE 2537658 A1 19770303 - ELMEG
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- [E] EP 0060493 A2 19820922 - SATAKE ENG CO LTD [JP]

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CN103934223A; DE3443476A1; EP0308223A3; EP0248281A3; WO2014076253A1

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