### Title (en)

## DIFFERENTIAL RATE SCREENING

Publication

# EP 0094741 A3 19850821 (EN)

Application

### EP 83302020 A 19830411

Priority

- US 36696182 A 19820409
- US 36696582 A 19820409

Abstract (en)

[origin: EP0094741A2] Disclosed are differential rate screening processes and apparatuses for continuously screening undersize particles in different size classes to different degrees of incompletion to provide a product having a preselected distribution of particle sizes substantially different from the distribution of particle sizes in a feed of particulate material. An input stream of feed material (62 min ) is introduced onto a screening member (60 min ) having apertures of sufficient size to pass a plurality of size classes, and is separated into at least a throughs stream (250 min ) and one other stream (252 min ) by causing undersize classes to pass through screen apertures (64 min ) and into a throughs stream (250 min ) in proportions relative to one another substantially different from the proportions of the same undersize classes relative to one another in the input stream (62 min ). The overs, throughs or both from one rate screening member (60 min ) may be introduced as an input stream onto another rate screening member (68 min ). A sufficient population of undersize particles are provided in each undersize classes in a throughs stream (250 min ) are controlled so as to provide a product having substantially the desired particle size distribution. Various means such as a shroud (130 min ) are provided for causing differentials between relative proportions of undersize classes in an input stream (60 min , 68 min ) and into a throughs stream (250 min ), and relative proportions of undersize classes passing through a screening member (60 min , 68 min ) and into a through stream (250 min ), and relative proportions of undersize classes in an input stream from one rate screening member (60 min ) may be blended with an output stream from another rate screening member (60 min ) and relative proportions of undersize classes in an input stream (250 min ) and relative proportions of undersize classes in an input stream (250 min ) and relative proportions of undersize classes in an input stream (250 min ) and

IPC 1-7

# B07B 9/00

### IPC 8 full level

B07B 9/00 (2006.01); B07B 13/18 (2006.01)

CPC (source: EP)

B07B 9/00 (2013.01); B07B 13/18 (2013.01)

Citation (search report)

- [AD] US 4032436 A 19770628 JOHNSON KENNETH I
- [A] US 3392491 A 19680716 VOGT THEODORE R
- [A] US 2782926 A 19570226 SAXE WALTER E

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