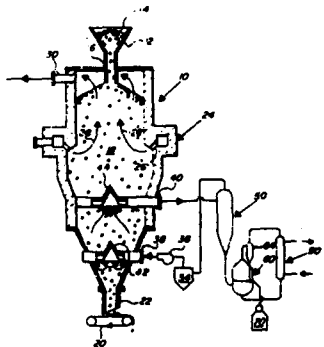


tioned two openings of the lower piping, a feed pump for a sample and a feed pipe for pressurized air, and a lift for moving the upper frame up and down, the apparatus being designed in such a manner that either one or two of a fluidizing chamber, a filter chamber, and a spray drying chamber can be connected between one opening of the lower piping and the corresponding opening of the upper piping, and the other openings of the upper and lower pipings can be provided with one or more of a heater, an aspirator, and a cyclone.

4358310

### DRY COLLECTION OF METALLIZED FINES

Charles W Sanzenbacher; David C Meissner assigned to Midrex Corporation

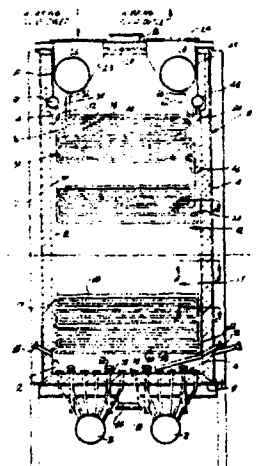


A method and apparatus for the dry collection of metallized fines from a direct reduction furnace cooling zone in which cooling gas removed from the cooling zone passes through a dust collector and the removed dust is cooled in a fluidized bed, the fluidizing gas being recirculated through an indirect cooler. The process is continuous and the fines are collected at a sufficiently low temperature for easy handling. The apparatus includes a hot gas cyclone in the cooling gas withdrawal line connected to a fluidized bed cooler, a conduit for withdrawing fluidizing gas from the fluidized bed cooler passes through a second cyclone dust collector then through an indirect cooler and returns to the fluidized bed cooler. Cool fines are withdrawn from the fluidized bed cooler into a collector.

4357907

### FLUIDIZED BED COMBUSTOR WITH IMPROVED INDIRECT HEAT EXCHANGER UNITS

John Campbell; Larry H Russell; Philip I Robinson assigned to Rockwell International Corporation



There is provided a fluidized bed combustor comprising an economizer contained in an upper interior portion and indirect heat exchange conduits suspended in the lower interior portion of the fluidized bed combustor in spaced relation to the interior surfaces of the fluidized bed combustor.

4357883

### BED DRAIN COVER ASSEMBLY FOR A FLUIDIZED BED

Joseph R Comparate; Martin Jacobs assigned to Combustion Engineering Inc

