

Movable grate with grate cleaning and mechanical ash removal mechanisms is equipped with grate bars featuring forced cleaning of side serrated ends in horizontal plane; there are two types of grate bars: those with semicircular grooves (33) and those with wide U-shaped grooves (34), wherein grates are designed with the possibility of coupling via grate grooves (35) and grate pins (36). Grate additionally includes mechanical ash removal system, which consists of ash scrapers (20), scraper housings (21), tie rods (25), wedge-shaped grippers (26), and scraper cleaning windows (24). Solid fuel hopper (10) of moving grate additionally comprises fuel stirring mechanism (12) with stirring blades (13) and fuel slide gate (15) with hydraulic drive from slide gate cylinder (16).