Re-pressing-press. A press designed for compacting bales of cotton, etc., into the smallest possible compass for transportation. Grader’s (Fig. 4264) has two steam-cylinders a b, the upper one of which is of greater diameter than the lower. The piston of the lower has a ratchet which engages with the toothed area e f, to whose upper extremities are attached rods e’ f’ connected with the platen g. Steam admitted below the lower piston causes an upward movement of the segments, which, through the medium of the rods e’ f’, raise the platen and compress the bales placed between it and the immovable bed h. If a greater pressure is desired than is thus obtainable, the piston of the large cylinder a is caused to descend; a clutch on its piston-rod then engages the teeth on the ratchet piston-rod of the lower cylinder, and on admitting steam below the upper piston a further upward movement is imparted to the platen g through the medium of the ratchet, arms, and connecting-rods.

The power of the press may be varied, — by using the lower cylinder alone; by working the upper cylinder expansively; by working the upper cylinder expansively and the lower under full boiler pressure; and by using full boiler pressure in both cylinders.

The repressing-press may be of any suitable form and construction, but the steam or hydraulic form shown in Fig. 4965 is compact and effective.