

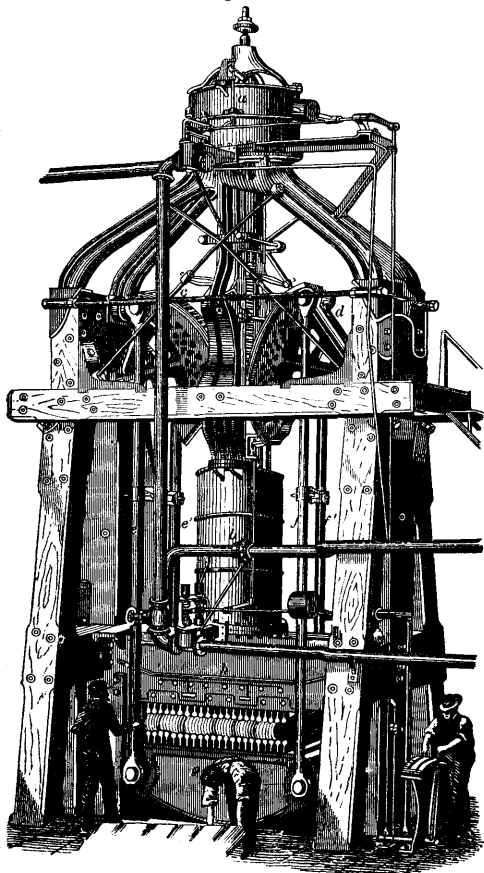
packing bales of cotton, etc., into the smallest possible compass for transportation. Grader's (Fig. 4264) has two steam-cylinders *ab*, the upper one of which is of greater diameter than the lower. The piston of the lower has a ratchet which engages with the toothed arcs *c d*, to whose upper extremities are attached rods *e e' f 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 e' f 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 ratcheted piston-rod of the lower cylinder, and on admitting steam below the upper piston a farther upward movement is imparted to the platen *g* through the medium of the ratchet, arcs, 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. 4265 is compact and effective.

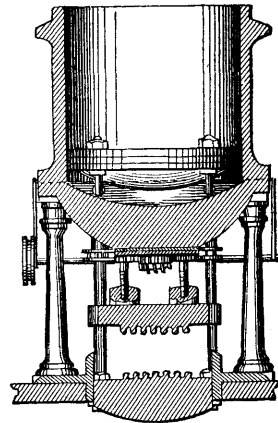
Re-press'ing-press. A press designed for com-

Fig. 4264.



Grader's Re-pressing-Press.

Fig. 4265.



Repressing-Press.