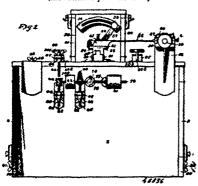
No. 48,836. Feeder for Mills.

(Alimentateur pour moulina.)



John Peter Wehrer, La Crosse, Wisconsin, U.S.A., 3rd May, 1895; 6 years.

Claim. -- Ist. In an automatic feeder of the class described, the combination of the casing, a vibrating feed par assugement with the casing, and provided with inclined imperforate bottom boards declining from both sides of the centre thereof, separating sieves forming from extensions of said bottom boards and horizontal disforming front extensions of said bottom beards, and horizontal dis-tributing boards disposed below said front sieves in front of the inclined bottom boards and the hopper, substantially as set forth. Dad. In a machine of the class described, the casing, a longitudi-ually iduating feed pan arranged within said casing, as migning spring metal banger straps secured at their lower ends to the corners of said pan, adjustable supporting blocks attached to the imper ends of said straps, angle clamp plates secured to the inner sides of the casing and provided with inner growted sides embracing said sup-stantial blocks, elementary the machine the inner sides of the porting blocks, clamp bolts connecting the inner ends of said clamp plates beyond said blocks, serew rois attached to said adjustable plates beyond said blocks, serew rids attached to said adjustable supporting blocks and working through the topof the casing, thumb muts engaging said serew rids above and below the top of the casing, and the feed devices for said year, substantially as set forth. 3rd. In a machine of the class described, the combination of the casing, the swinging feed year suspended within the casing, upright slaker-lers attached to said feed year and working in slots in the top of the casing, the drive shaft supported for rotation above the casing, operating connections between said drive shaft and the upper ends of said shaker bars, and the feed devices for said year, substantially as set forth. 4th. In a machine of the class described, the combina-tion of the rasing the substantially cases the casing the said real sea and instable arongended tion of the casing, the swinging feed pan adjustably suspended within the casing, upright shaker bars attached centrally to opposite within the casing, upright shaker bars attached centrally to opposite sides of the pan and projecting through slots in the top of the casing, a transverse drive shaft journalled on top of the casing and provided with opposite eccentrics, spring pitmen provided at one end with adjustable bayes clamped on the eccentries of said shaft, vertically adjustable cap plates provided with opposite flanged and longitudi-nally slotted straja arms embracing the upper ends of said shaker lears and with horizontal flanged top seats adapted to have clamped therein the other ends of said spring pitmen, clamp bolts passed through the upper ends of the shaker lars and engaging the slots of said stray arms adjustable seat serves working thomes threads through the upper ends of the shaker bars and engaging the shots of said strap arms, adjusting set serves working through threaded openings in one end of the pitmen and the top of said casp plates to imping against the upper ends of said shaker bars, and the feed devices for the pan, substantially as set forth. 5th. In a machine of the class described, the combination of the casing open at its box-tom and provided at opposite ends thereof with mote boxes, a longi-tudinally vibrating feed pan supported to swing in said casing and provided with inclined bottom becards and separating several in front of said beards, and the feed boxes or clustes arranged to discharge onto the inclined bottom beards of wid foreton substantially was forth. the inclined bottom boards of said feed pan, substantially as set forth, ith. In a machine of the class described, the combination of the and, in a macrinic or the cases described, the command of the open bottom easing provided at opposite ends with removable note horses having sieve bottoms, the swinging feed pan suspended within the casing and provided with inclined imperforate bottom loants declining from both sides of the centre thereof, separating sieves declining from both sides of the center thereof, separating shores forming front continuations of said bottom boards, and horizontal distributing boards disposed below said front seives in front of the inclined bottom boards, and the feed boxes or clutes arranged to disclarge onto the inclined bottom boards of said feed pan, substantially as set forth. 7th. In a machine of the class described, the combination of the open bottom cosing, more boxes removably clamped to opposite lower ends of the casing and provided with sieve bottoms comprising a parallel series of sieve wires, the swinging feed pan suspended within the casing and provided with opposite inclined imperforate bottom boards, inclined separating sieves extended in front of said bottom boards and comprising a parallel

series of sleve wires supported with their inner ends fitted in the series of sieve wires supported with their inner chais intent in the outer edges of said bottom boards and arranged wider apart than the wires in the bottom of the mote boves, and the horizontal distributing boards arranged directly under said sieves in front of the inclined bottom boards, and the feel boxes or clustes arranged to discharge onto the inclined bottom beards, of said feed pan, substantially as set forth. 8th. In a machine of the class described, the condination of the open bottom easing, the swinging or longitudinally vibrating feed can asspended within the casing and having at both sides of its center inclined bottom boards and separating sieves beyond such boards, downwardly flared feed boxes or chutes secured within the norms, downwarmy nared reed boxes or cautes secured within the casing directly over the inclined bottom boards of the pan, and pointed dividing plates supported for longitudinal adjustment within said feed boxes or chutes, substantially as set forth. 9th. In a machine of the class described, the combination of the open bottom a machine of the class described, the combination of the open bottom casing, the swinging feed pan asspended within the casing and having opposite melined bottom boards and separating sieves beyond said boards, downwardly flarred feed boxes or clutes secured within the casing directly over said bottom boards of the pan and provided at their lower eads with opposite inner parallel side grooves, slide blocks mounted to slide in said grooves, upright adjustable dividing plates working within said feed boxes or clutes and attached to said slide blocks, clamp strips attached to the front sides of said feed boxes or clutes a claum device attached to said dividing habrs and boxes or cluttes, a clamp device attached to said dividing plates and adapted to be adjustably clamped to said clamp strips, and the adapted to be adjustably champed to said champ strips, and the hopper arranged on top of the casing, substantially as set forth. 10th. In a machine of the class described, the combination of the casing, the swinging feed pen having opposite inclined bottom boards and separating sieves, feed boxes or cluttes attached to the top of the casing and depending therein directly above said bottom boards, adjustable dividing plates mounted within said feed boxes or cluttes, a hopper box mounted on top of said casing and provided with separated bottom openings communicating with the upper ends of the said feed boxes or cluttes, a hopper box mounted on top of said casing and provided with separated bottom openings communicating with the upper ends of the said feed boxes or cluttes, a dividing locard or valve protailly mounted within said hopper box, an adjusting arm connected to the pivotal support of said board or valve, and a clamp device for said adjusting arm, substantially as see forth. Ifth, In an automatic feeder of the class described, the casing, a vibrating feed pan suspended within the casing and provided with an inclined bottom board, and a separating sieve, a feed box or clutte arranged over said inclined bottom board, and a selamported over said and a sequential gate. sever, a receiver or confer arranged very said meanest obtain board and a self-adjusting feed regulating gate supported over said inclined bottom board in close proximity thereto in front of said box or cluste, said gate being provided with a separate back board disposed at an angle thereto, and having its lower edge terminating short of the lower edge of the gate, substantially as set forth. 12th. snort of the lower edge of the gate, substantiary asset orth. In an automatic freder of the class described, the combination of the casing, a vibrating feed pan suspended within the casing, a feed box or chute arranged over the pan, a transverse gate shaft loosely journalled in the casing, swinging gate arms attached at one end to said shaft, and a self-adjusting feed regulating gate adjustably attached to the other free ends of said arms and arranged to work in front of the feed box or chute over the feed pan, substantially as set forth. 13th. In an automatic feeder of the class described, the set forth. 13th. In an automatic feeder of the class described, the combination of the casing, a vibrating feed pan suspended within the casing, the hopper feeding onto said pan, a transverse gate shaft lossely journalled in the casing, swinging gate arms attached at one end to said shaft and provided at their opposite ends with an open beying having aligned guide openings and depending parallel guide straps or arms, a self-adjusting feet regulating gate arranged to work within the pan directly serv its bottom. U-shaped clamps attached to the upper edge of said gate and provided with opposite slide growes lossely receiving said guide straps or arms of the swinging gate acus, serve rode attached to said U-shaped champs and arranged to project through the aligned guide openings of said open boxing, adjusting nuts mounted on said serew rods within said boxisoving, argusting units mounted on said server rous within said for-ing, and thumb claim units mounted on the upper ends of said server rods on top of said loving, substantially as set forth. 14th, In an automatic feeder of the class described, the combination of the casing, a vibrating feed pan suspended to work within the casing, a hoper feeding onto said pan, a transverse gate shaft, lossely journalled in the casing and having off-standing swinging rate arms, a self-adjusting feed regulating gate adjustably attached to arms, a self-adjusting feed regimating gare anjusting accounts and gate arms and working within the jear, said gate shaft projecting at one end outside of the casing, and automatic gate adjusting devices attached to the projecting extremity of said gate shaft, substantially as set forth, 15th, In an automatic adjusting devices attached to the projecting extremity of said gate shaft, substantially as set forth. 15th. In an automatic feeder of the class described, the combination of the casing, the vibrating feed par within the casing, the hopper, a transverse gate shaft having rwinging gate arms carrying a feed regulating gate, a sleeve champed onto one end of said gate shaft, a scrown of clamped to said sleeve, adjustable halancing and regulating weights having threaded openings engaging said scrow rads at both sides of the sleeve, an adjustable retractile spring connected to said serve rad adjustant to said sleeve, and upper and lower gages for one end of said scrow red, substantially as set forth. 16th. In an automatic feeder of the class described, the combination of the casing, the vibrating feed pan within the casing, the hopper, a casing, the vibrating feed pan within the casing, the hoper, a transverse gate shaft having awinging gate arms carrying a feed regulating gate, a sleeve clamped onto one end of said gate shaft, a rat manning and said sleeve and extending to both sides thereof, balancing and regulating weights adjustably mounted on opposite ends of said rod, a book arm attached to said rod near to the sleeve,