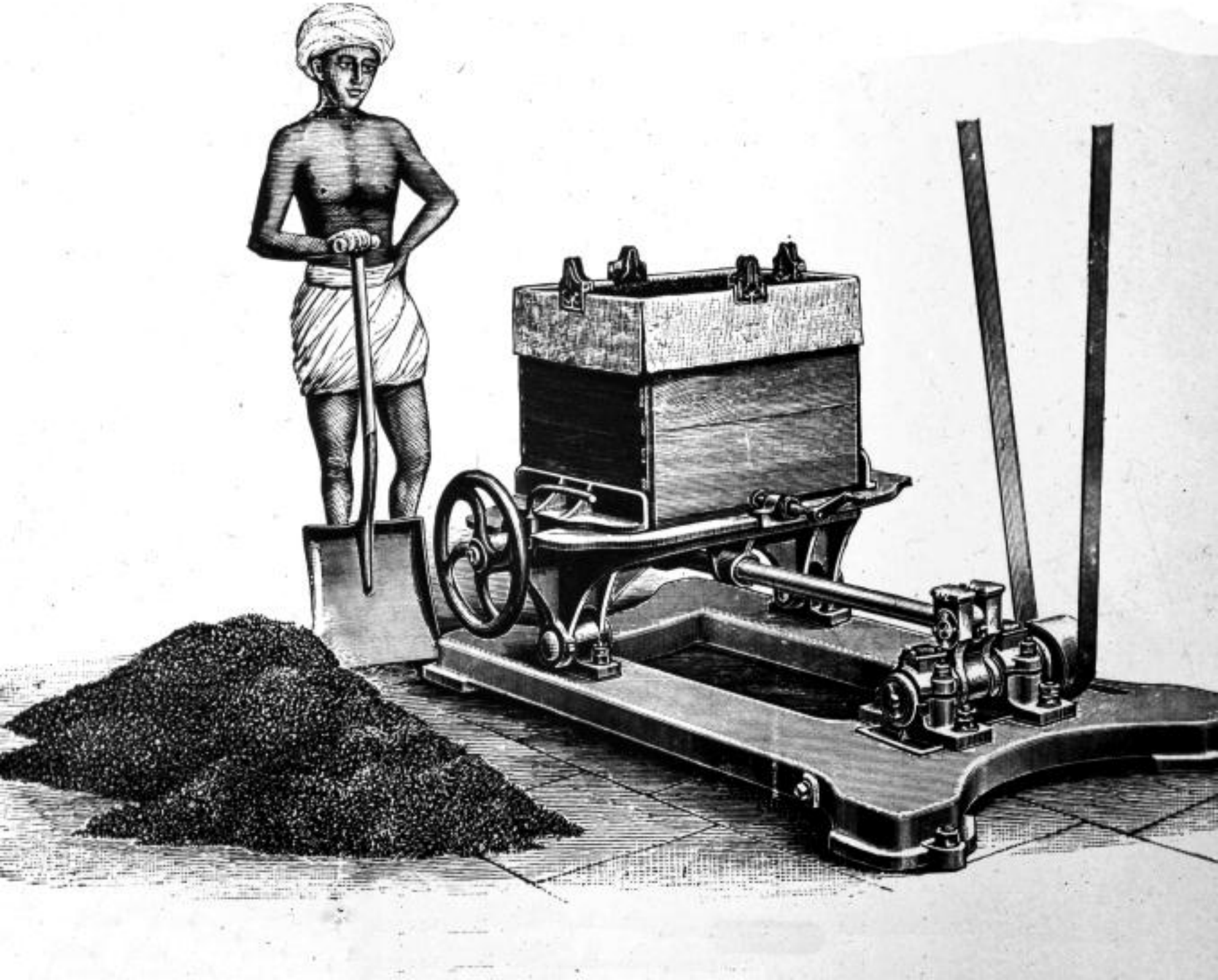
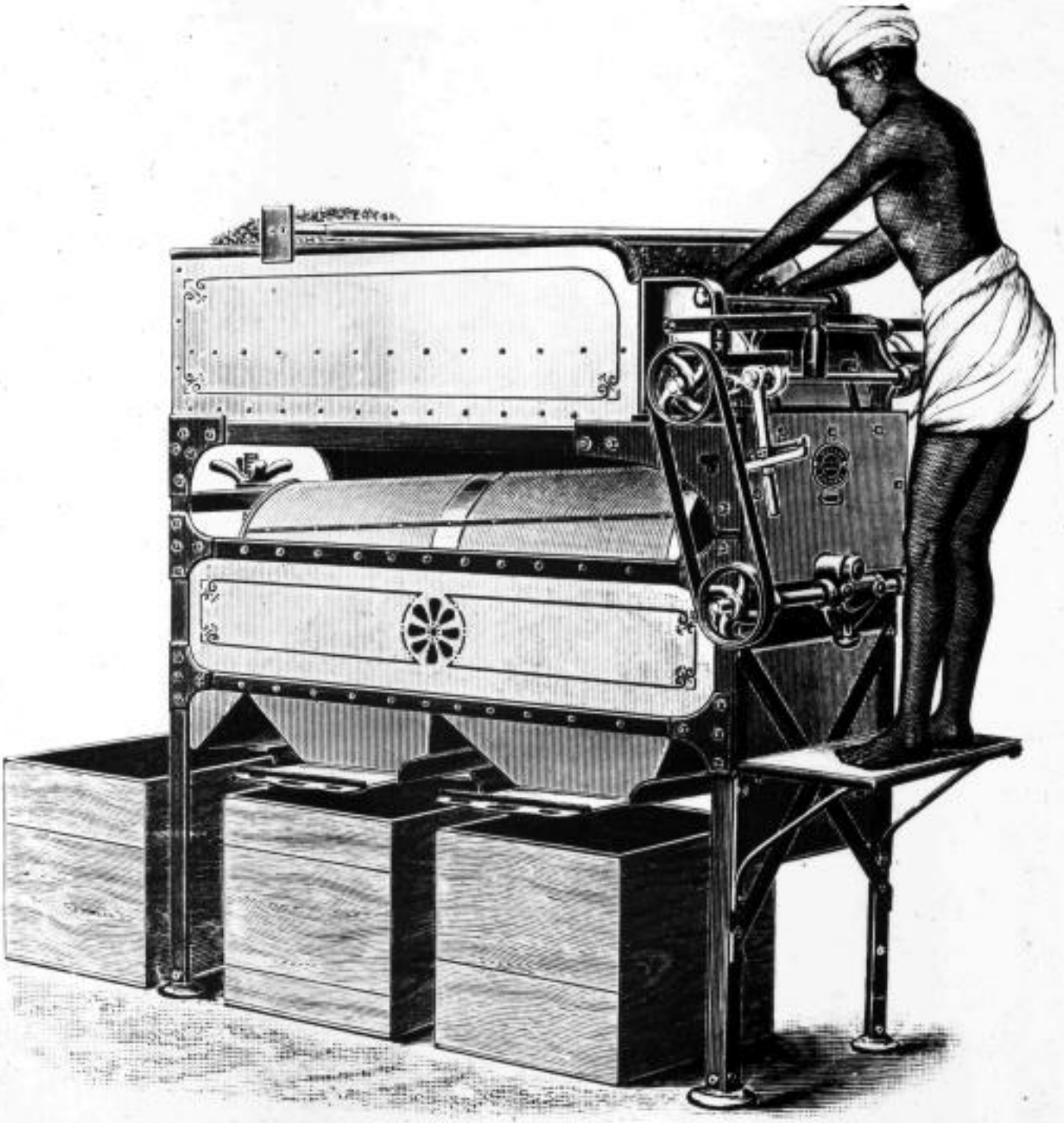
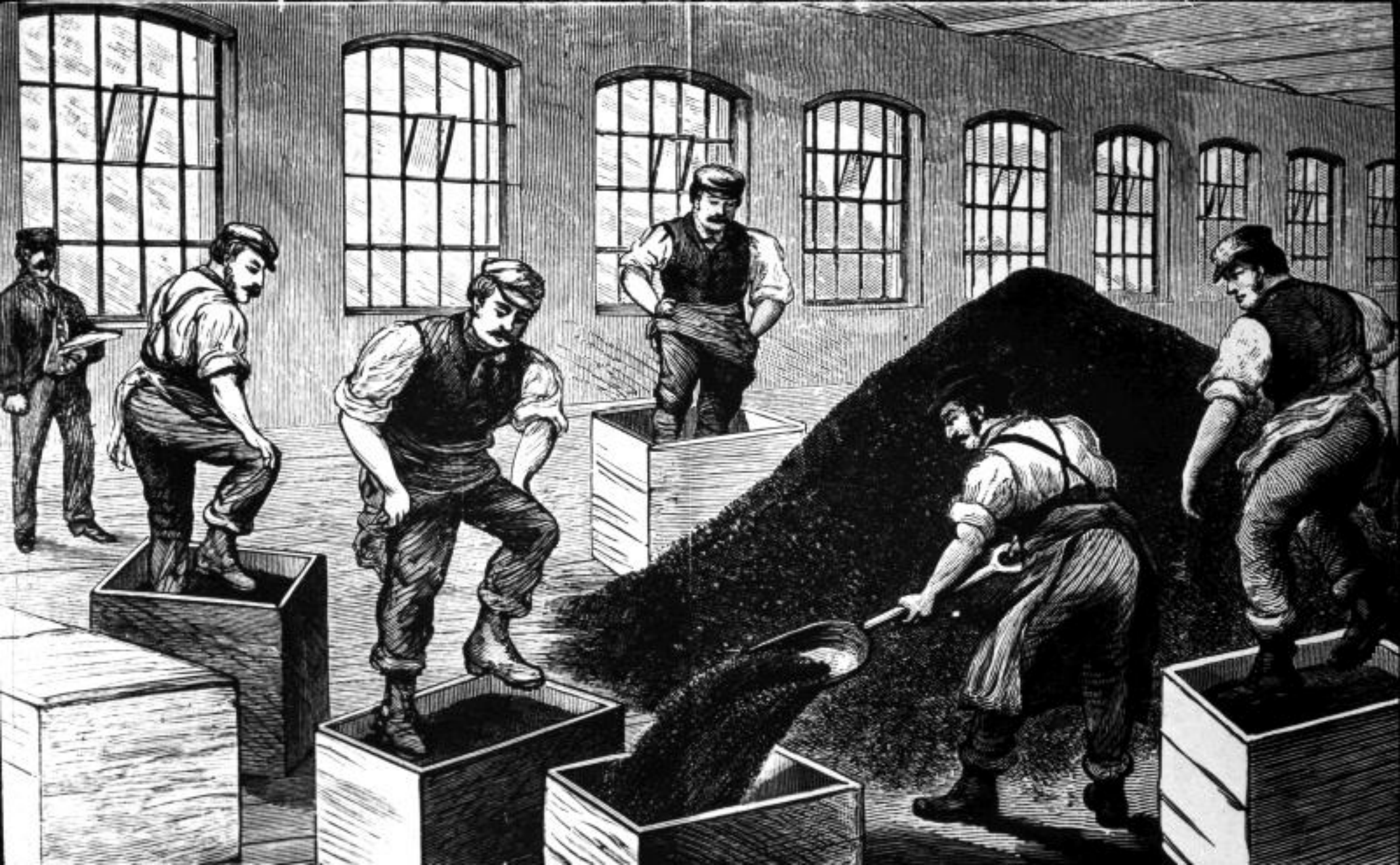
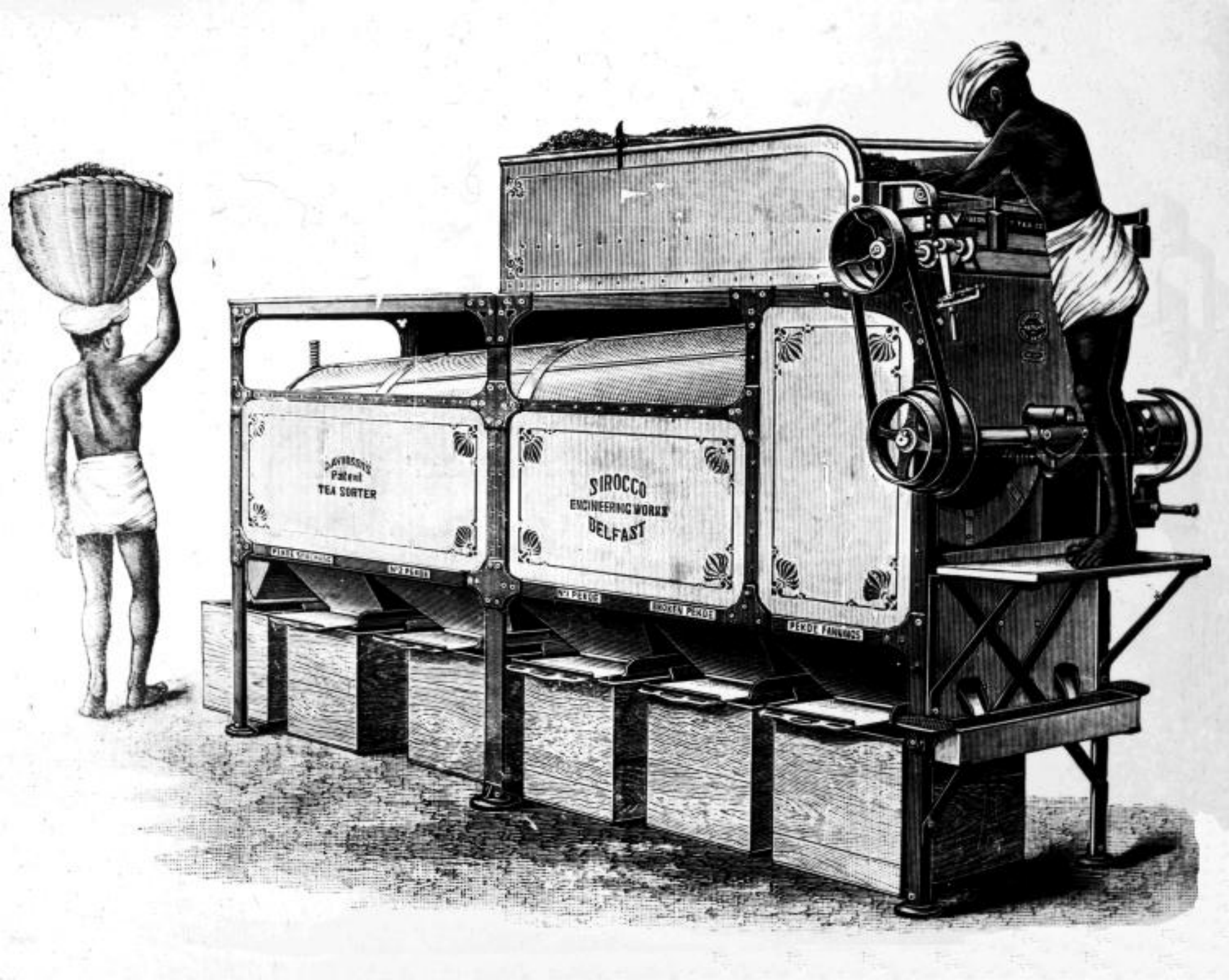
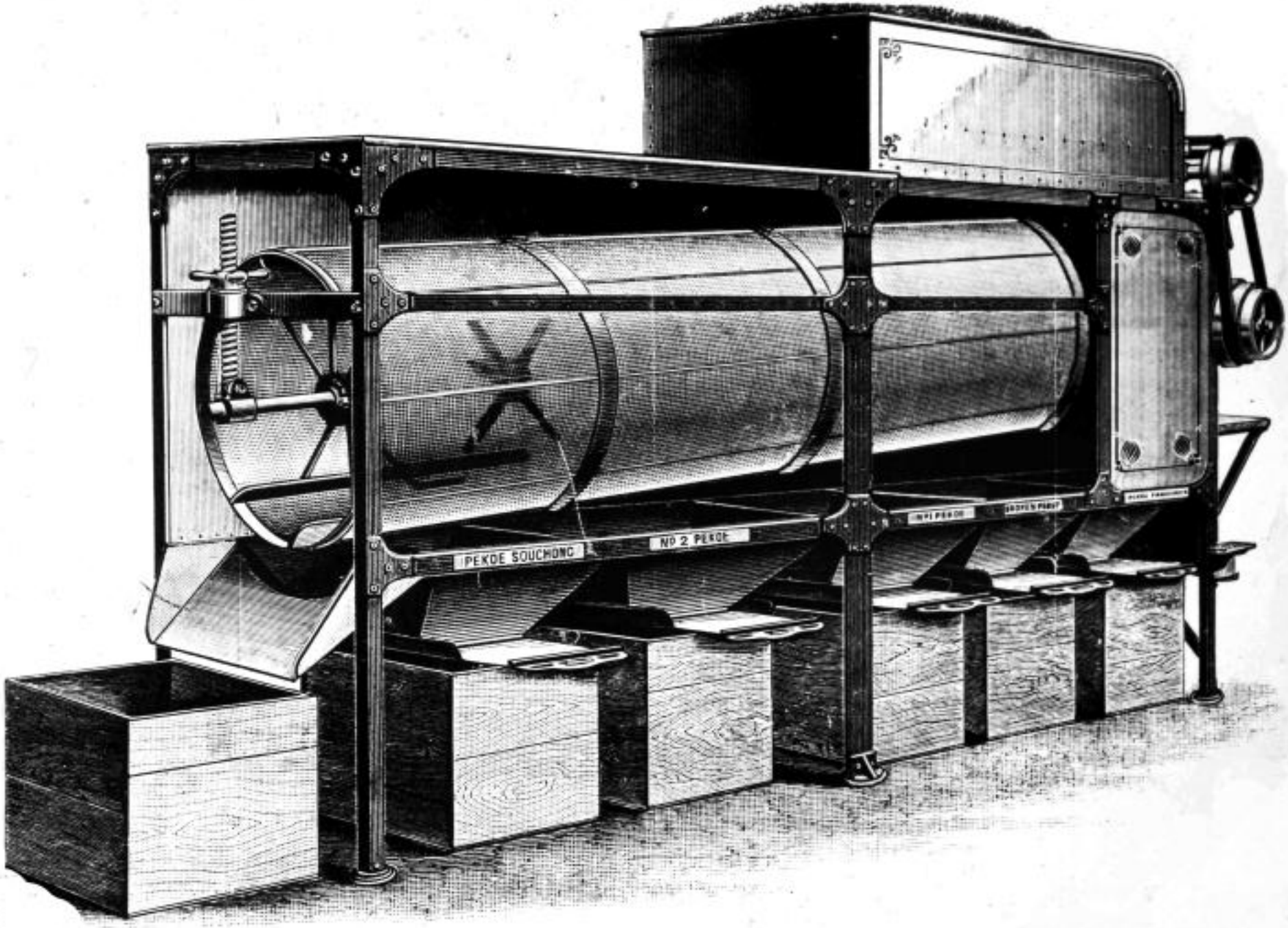
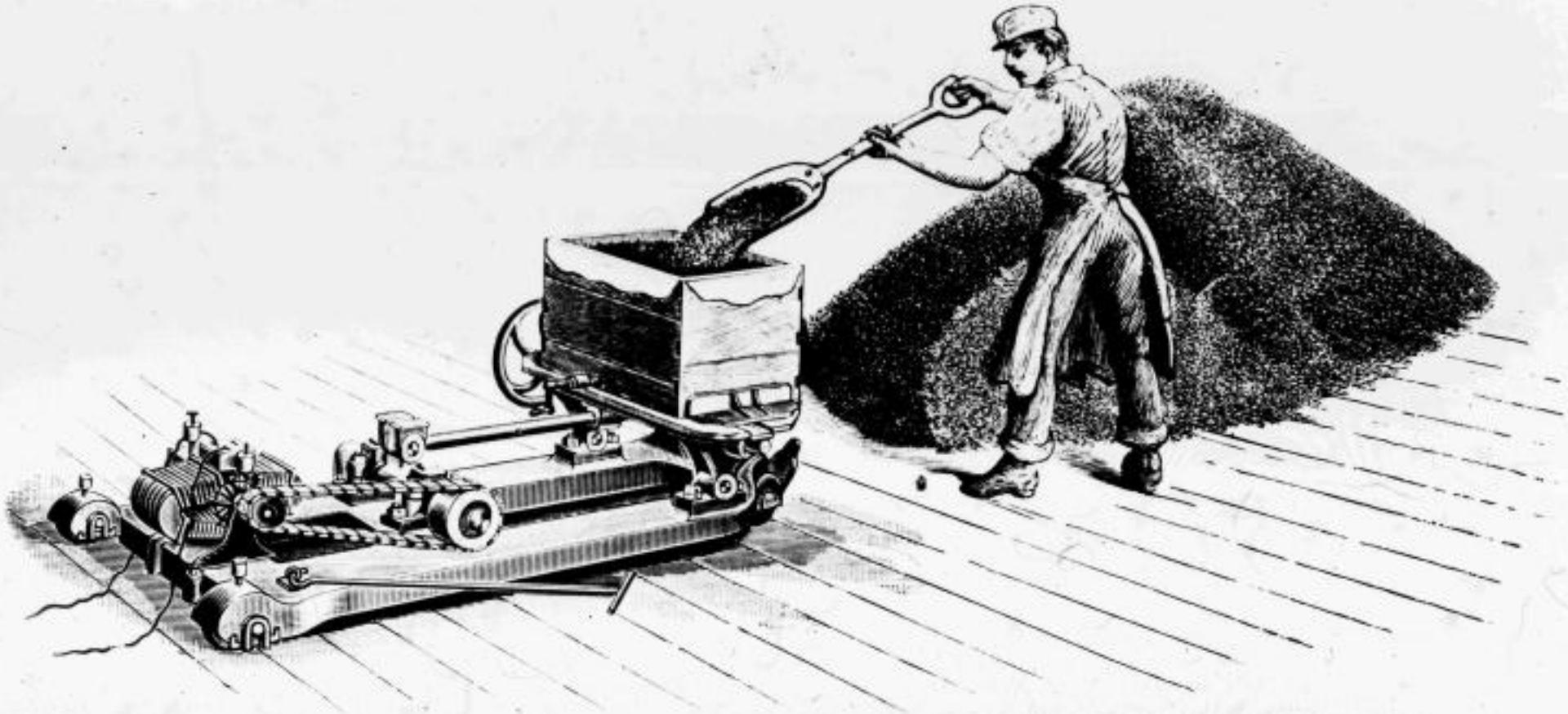







Patent
TEA SORTER
SIROCCO
ENGINEERING WORKS
BELFAST

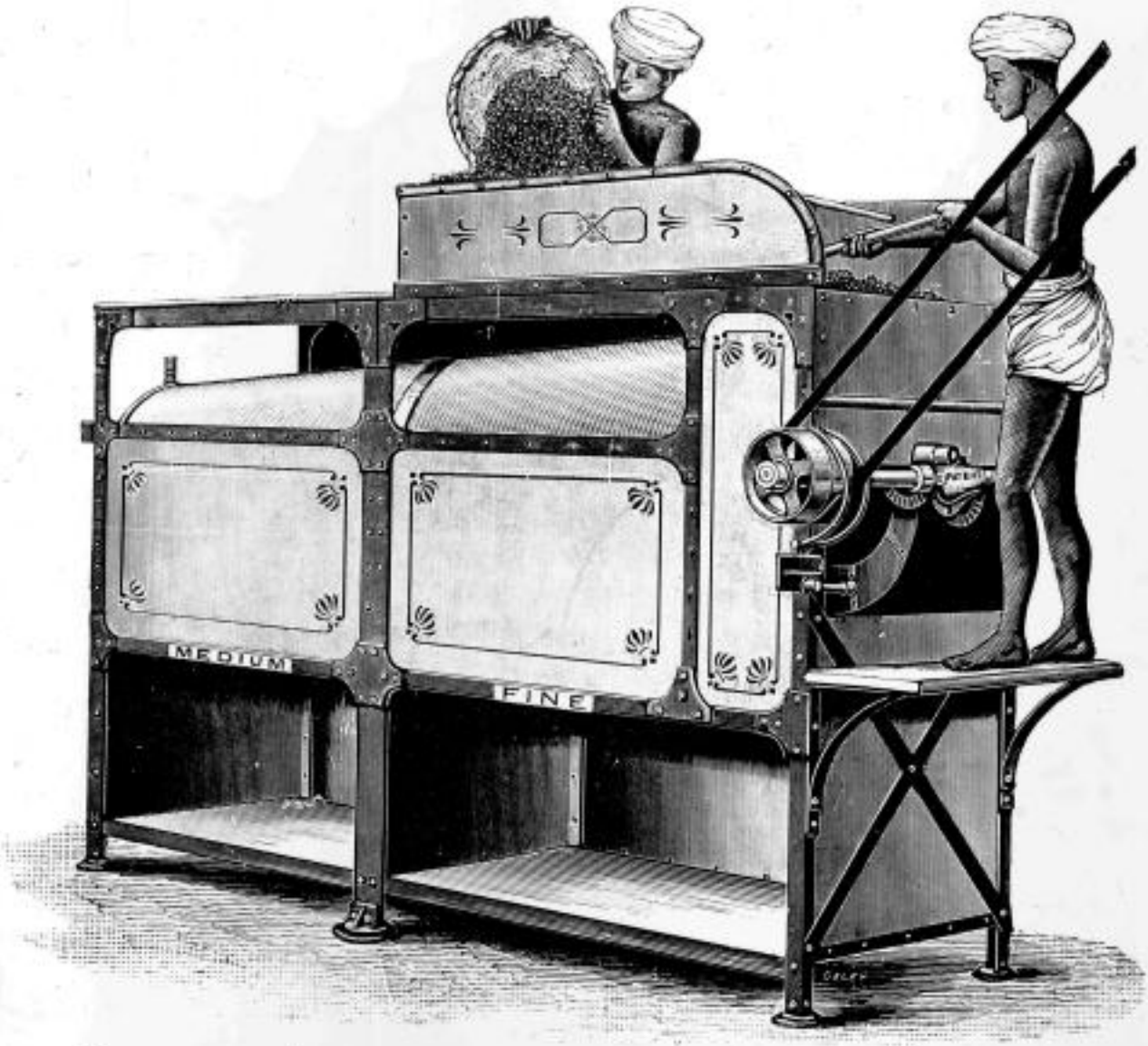

PEKOE SOUCHONG
No 2 PEKOE



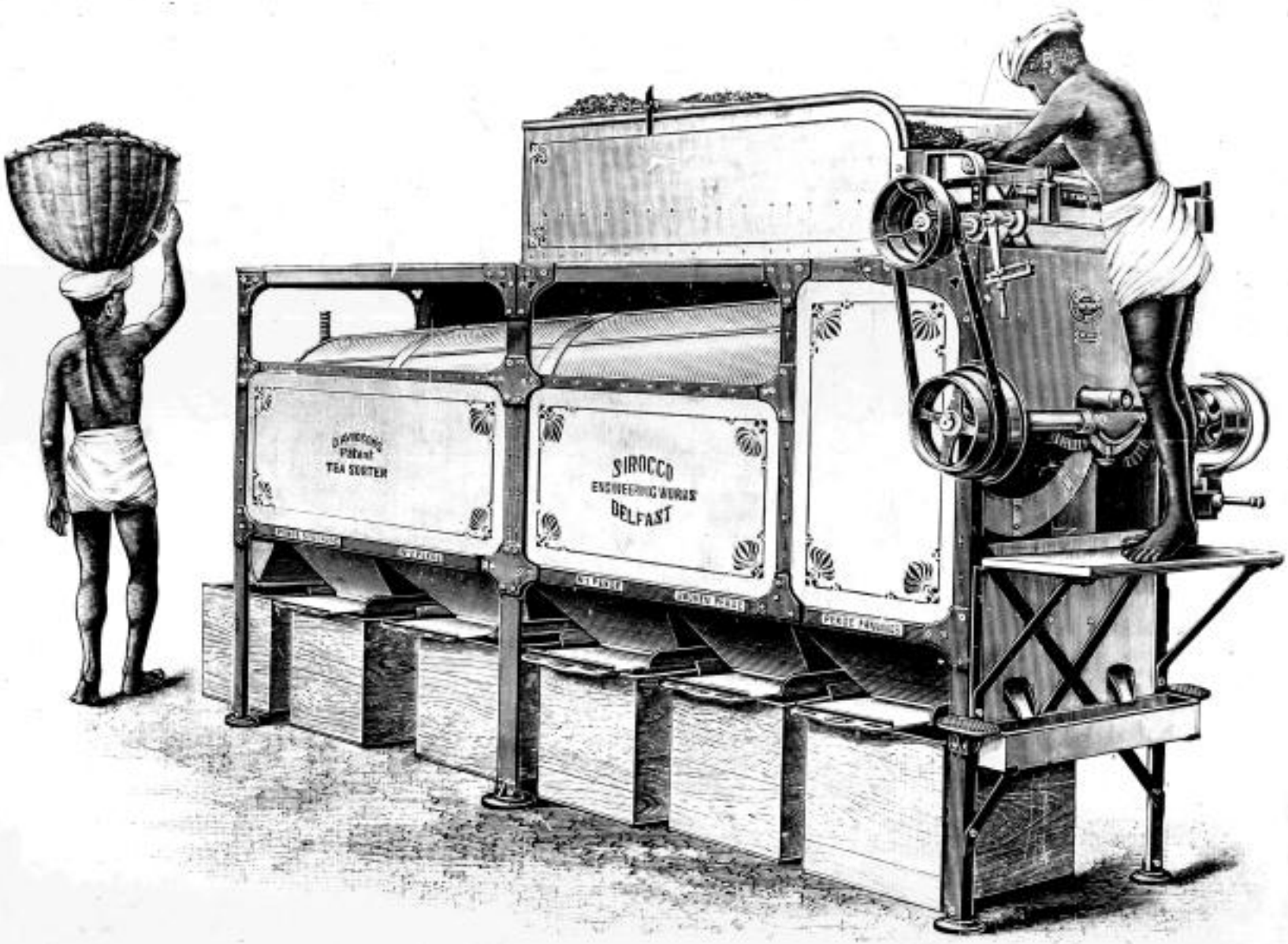
Davidson's Patent Electric Portable Tea Packer

For Warehouse Use

Davidson & Co Makers Sirocco Engineering Works Belfast.

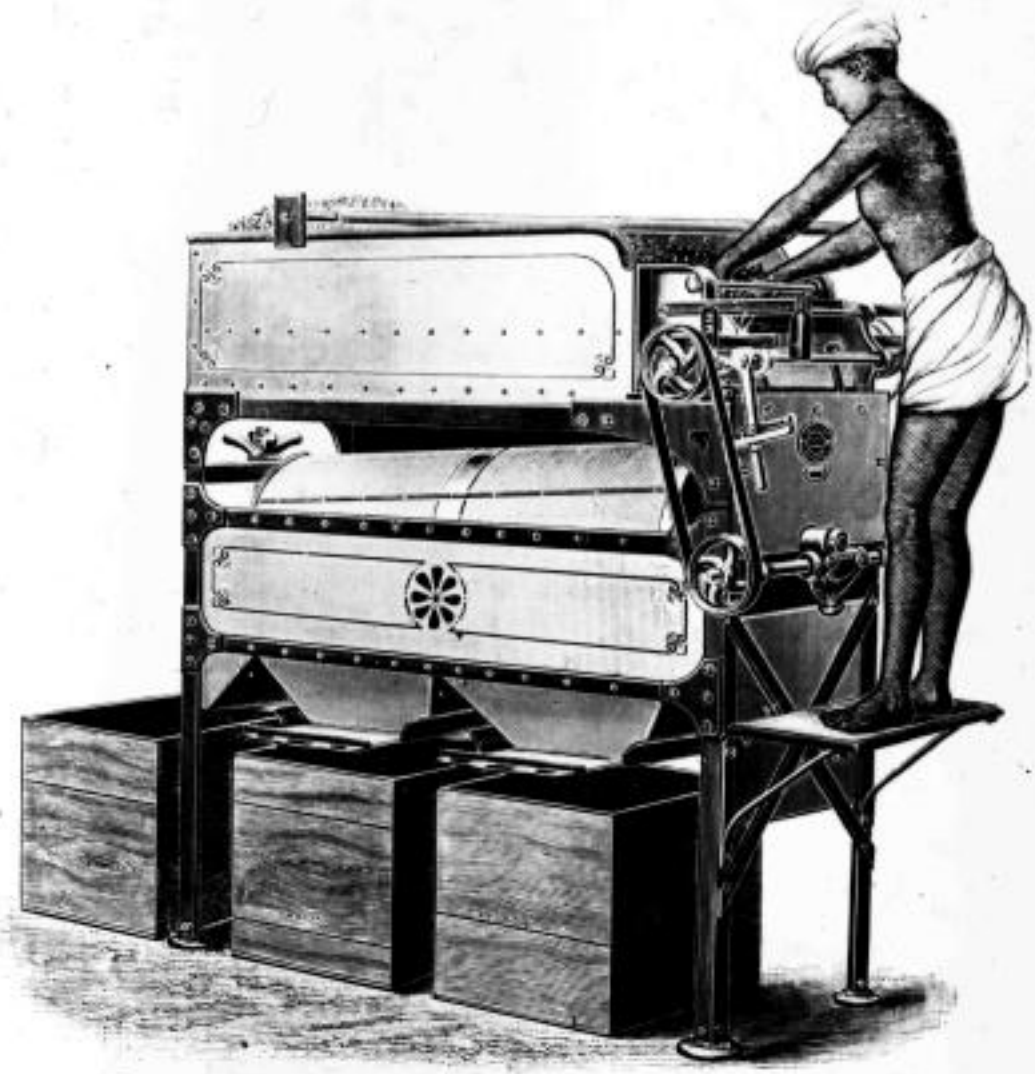


Davidson's Patent Rolled Leaf Sorter & Cooler



Davidsons Patent Tea Sorter Large Size

Sorts 800 to 1000 lbs of Tea per hour

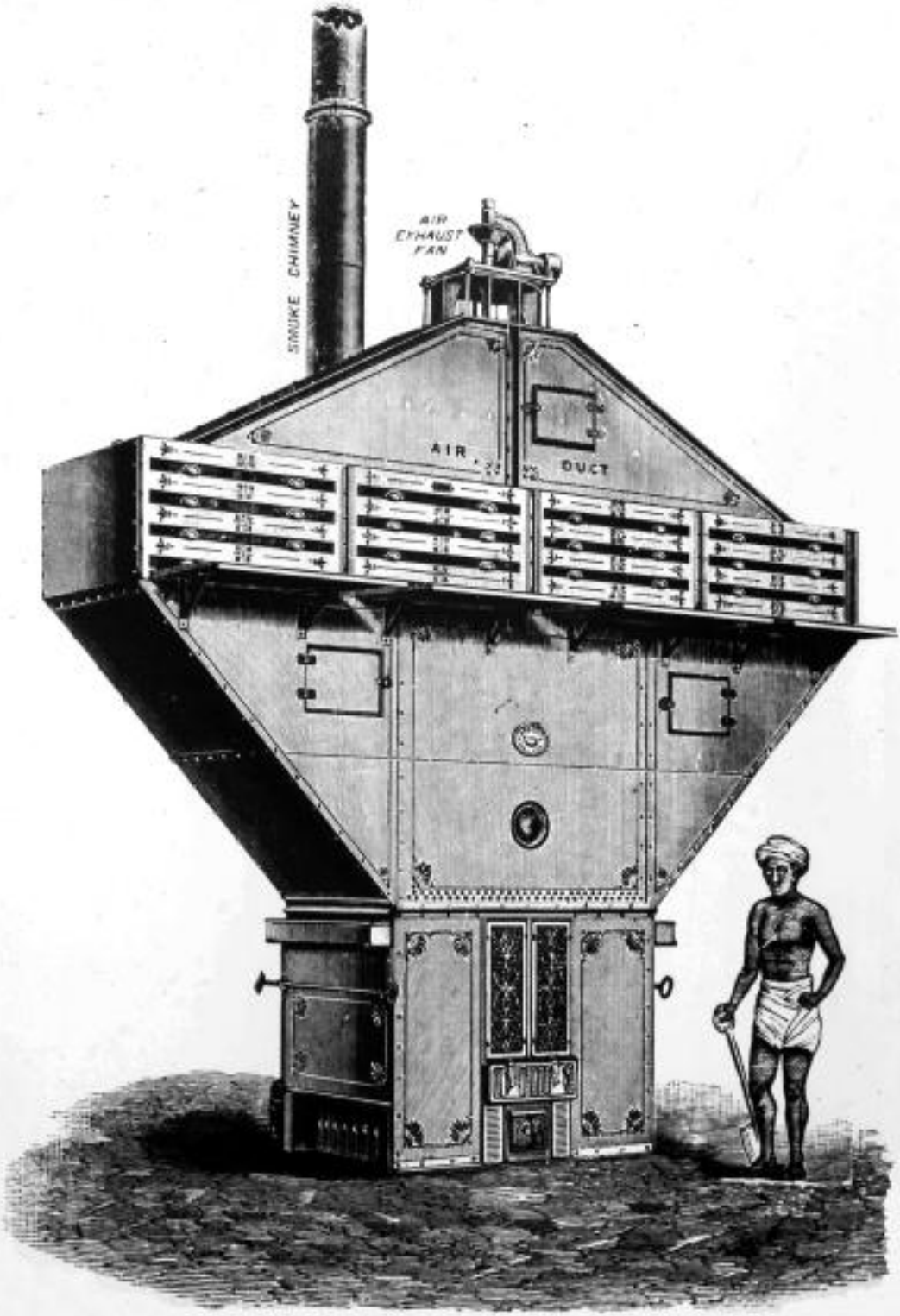


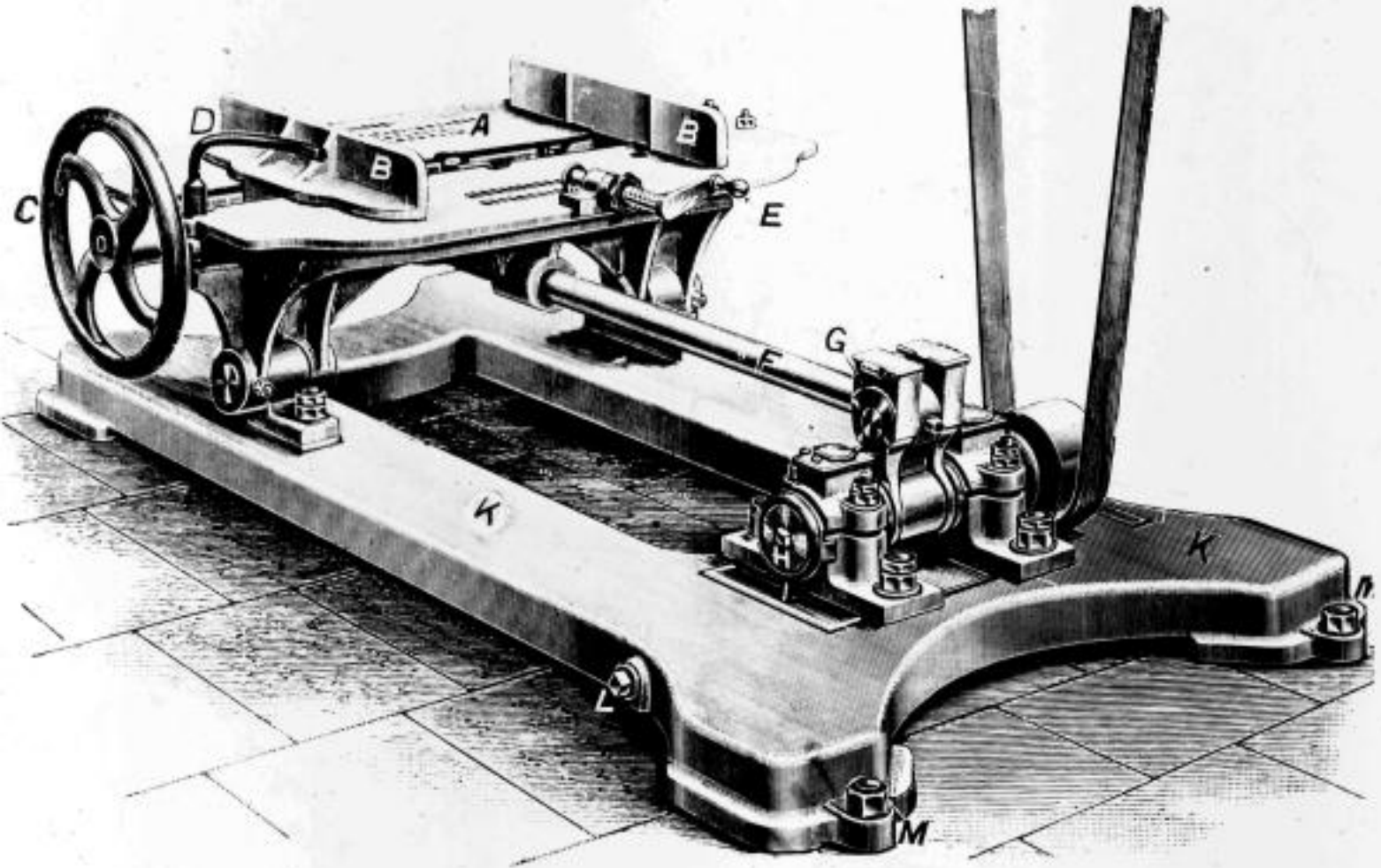
Davidson's Patent Tea Sorter and Cutter

Small Size

For Reducing and Classifying Coarse Tea

Davidson & Co Makers Sirocco Engineering Works Belfast

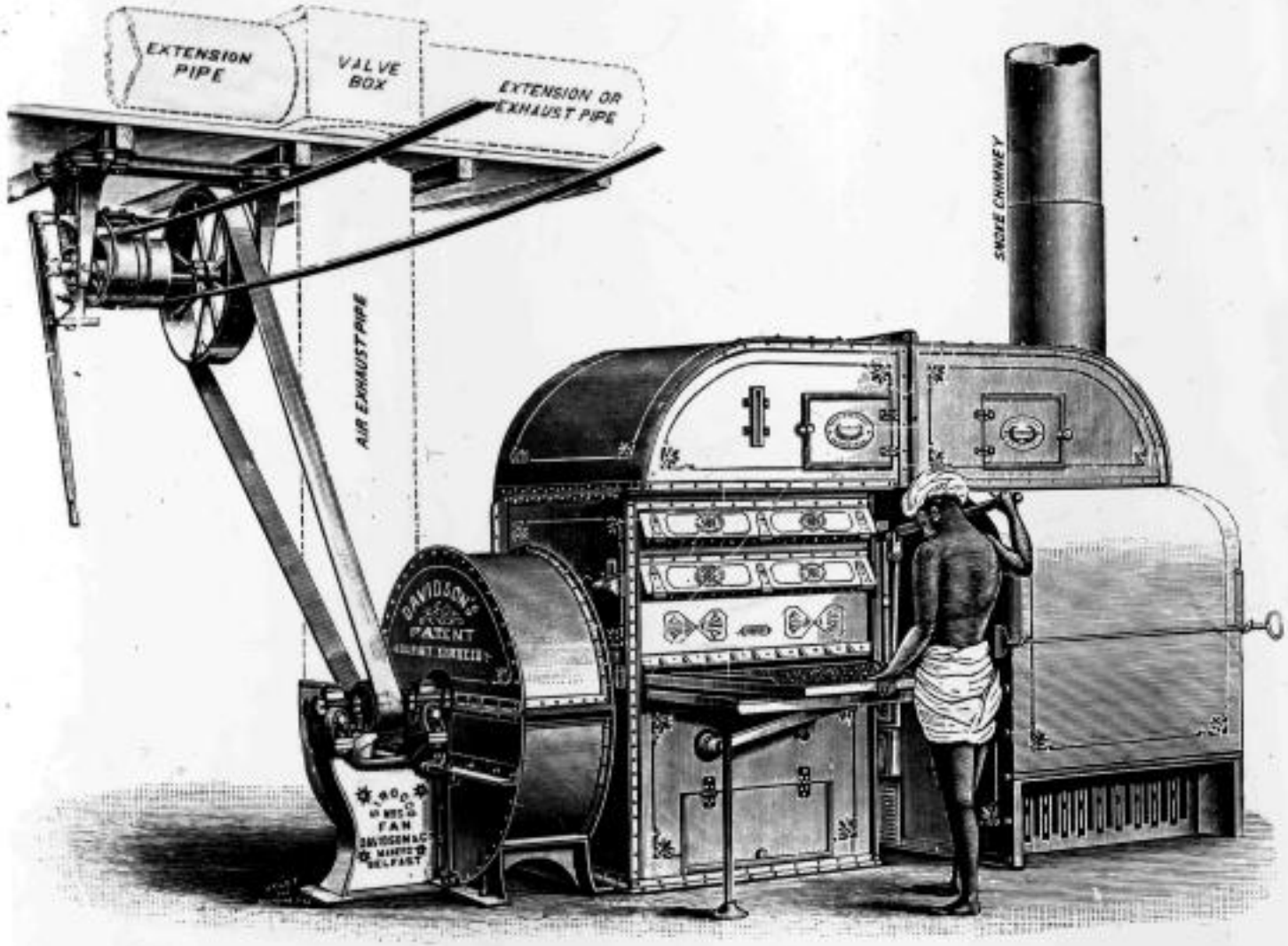

SMOKE CHIMNEY
AIR EXHAUST FAN
AIR DUCT



The Davidson-MaGuire Patent Tea Packer

Lettering Indicates Detail Construction

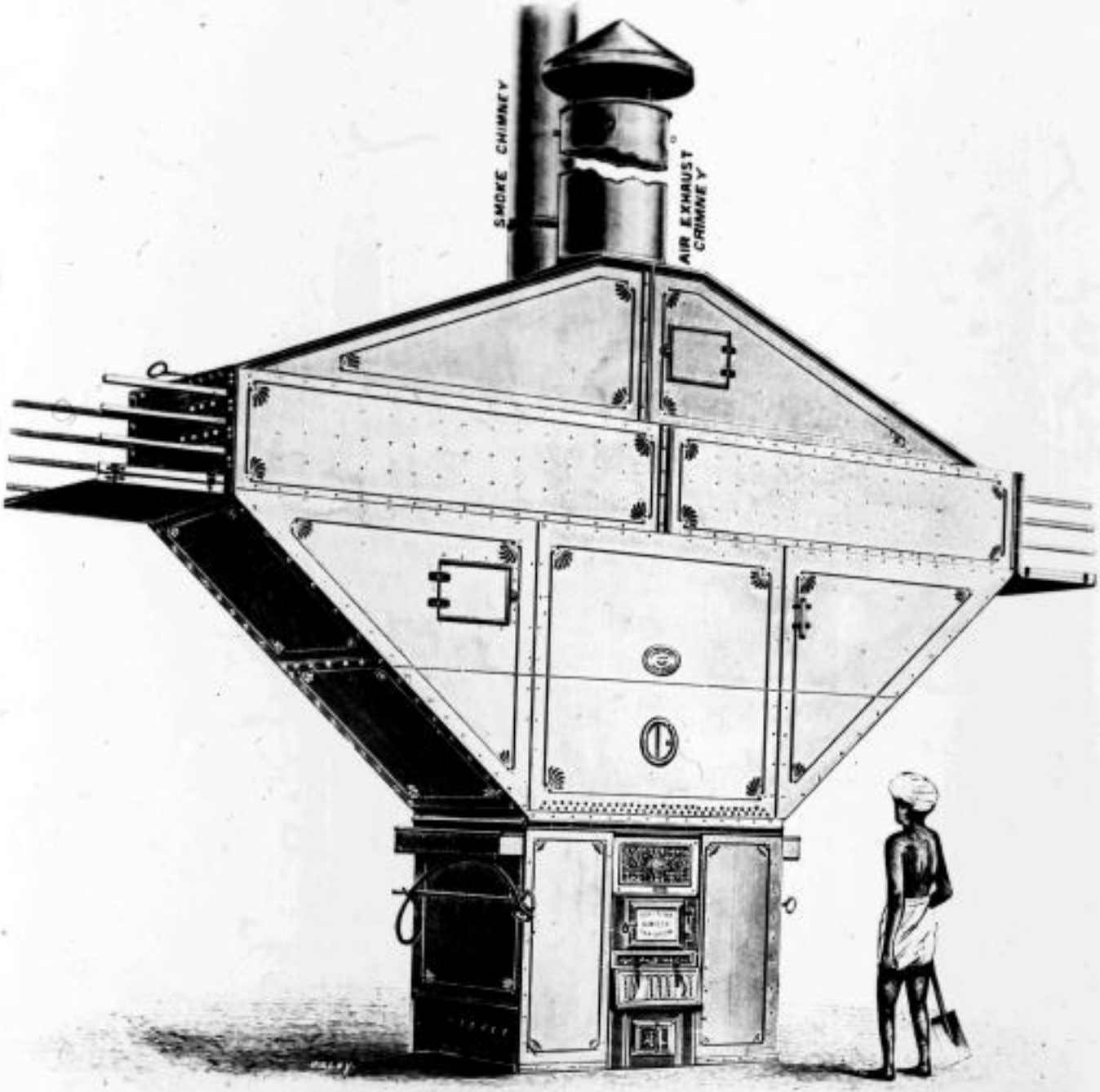
Davidson & Co Makers Sirocco Engineering Works Belfast



Davidsons Patent Down-draft Sirocco Tea Drier

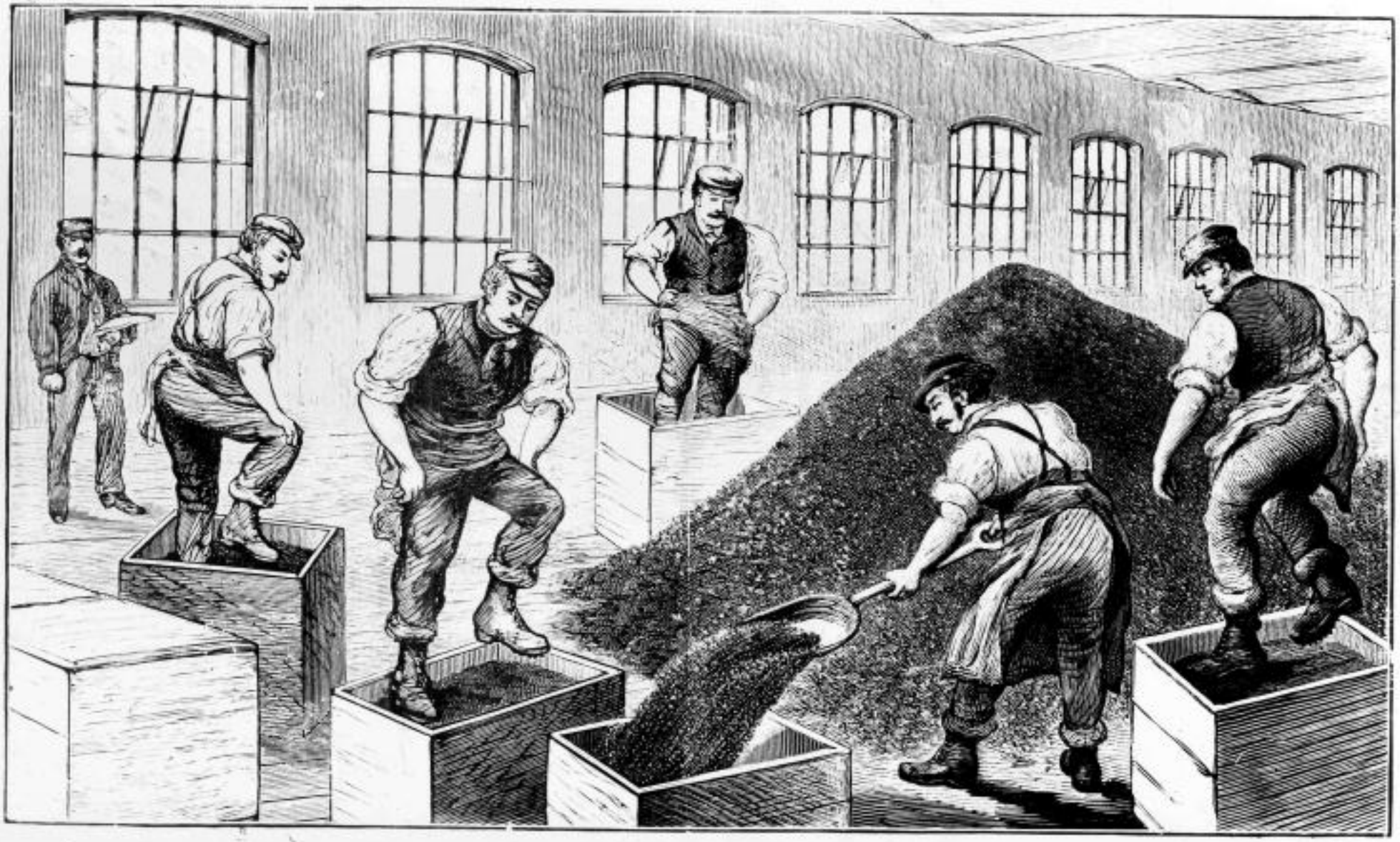
Thousands now in use

Davidson & Co Makers Sirocco Engineering Works Belfast



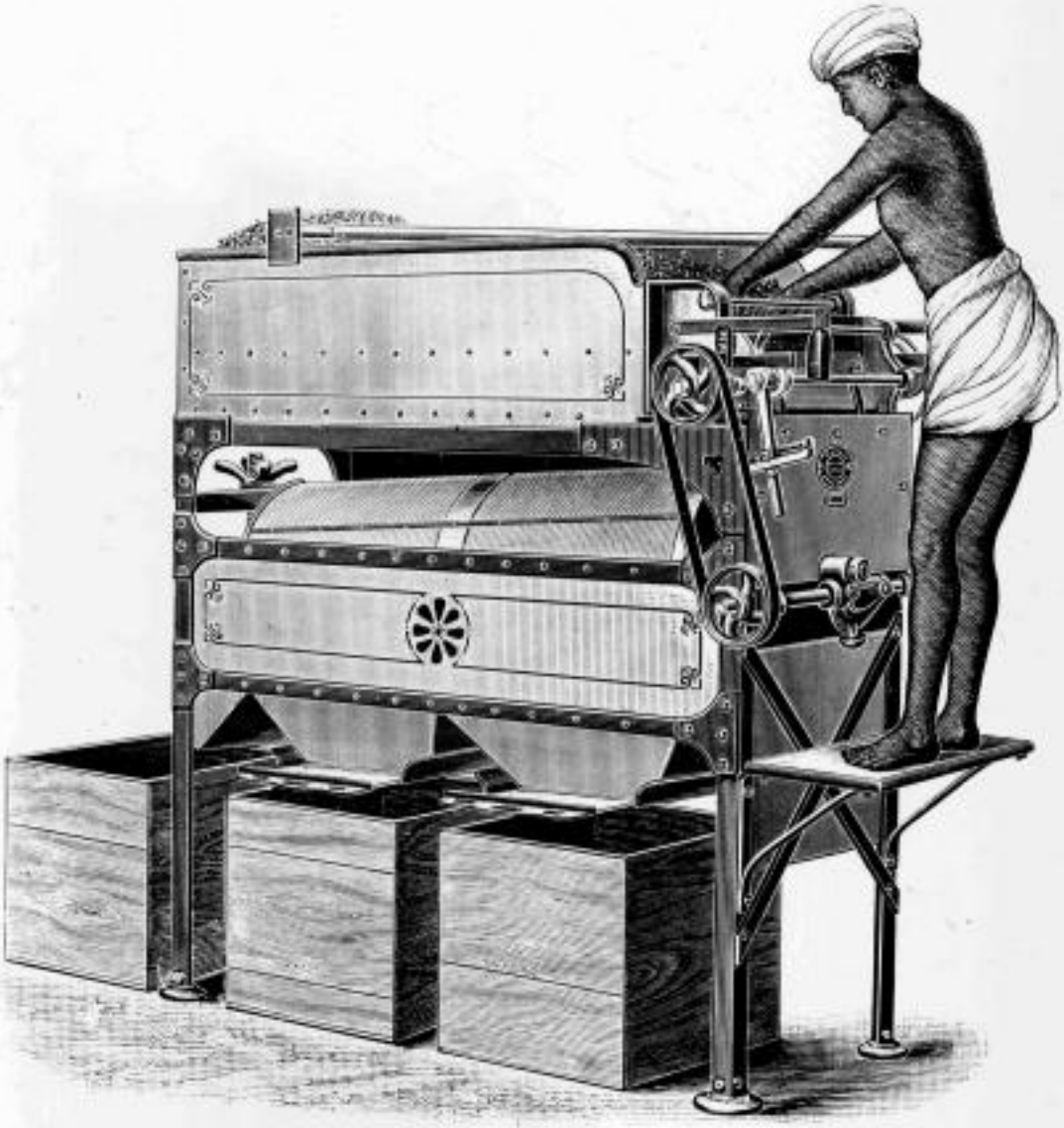
Davidsons Patent Self-acting Updraft Sirocco

Davidson & Co Sirocco Engineering Works Belfast. Makers.



Treading in Tea in the London Warehouses

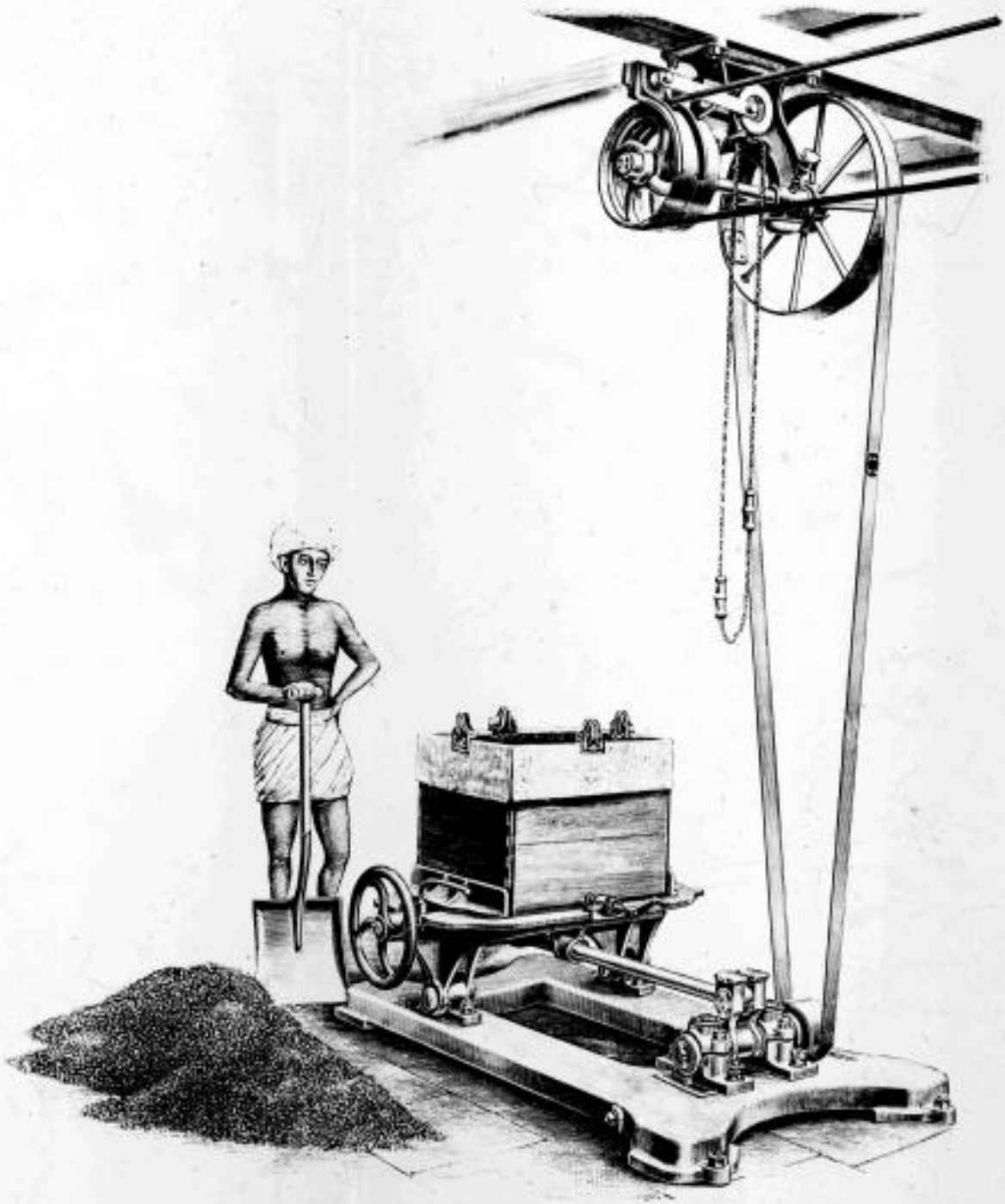
Ordinary Method of Refilling Chests



Davidsons Patent Tea Sorter and Cutter

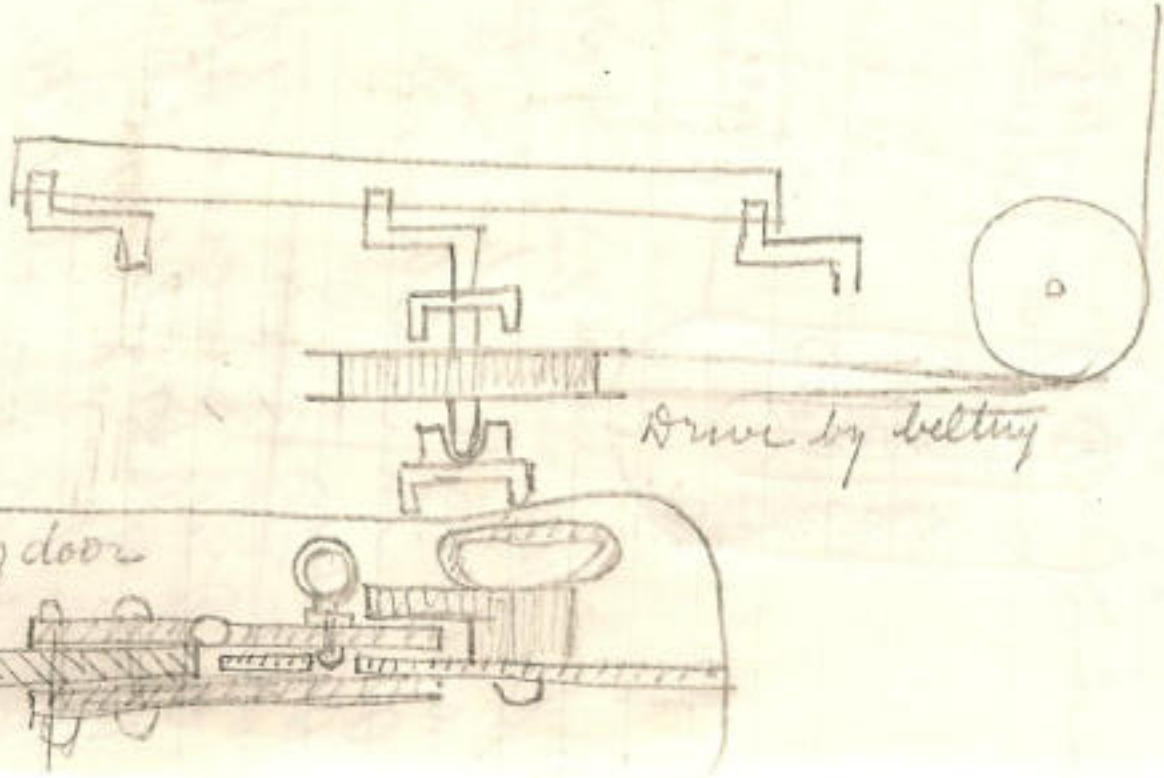
Small Size

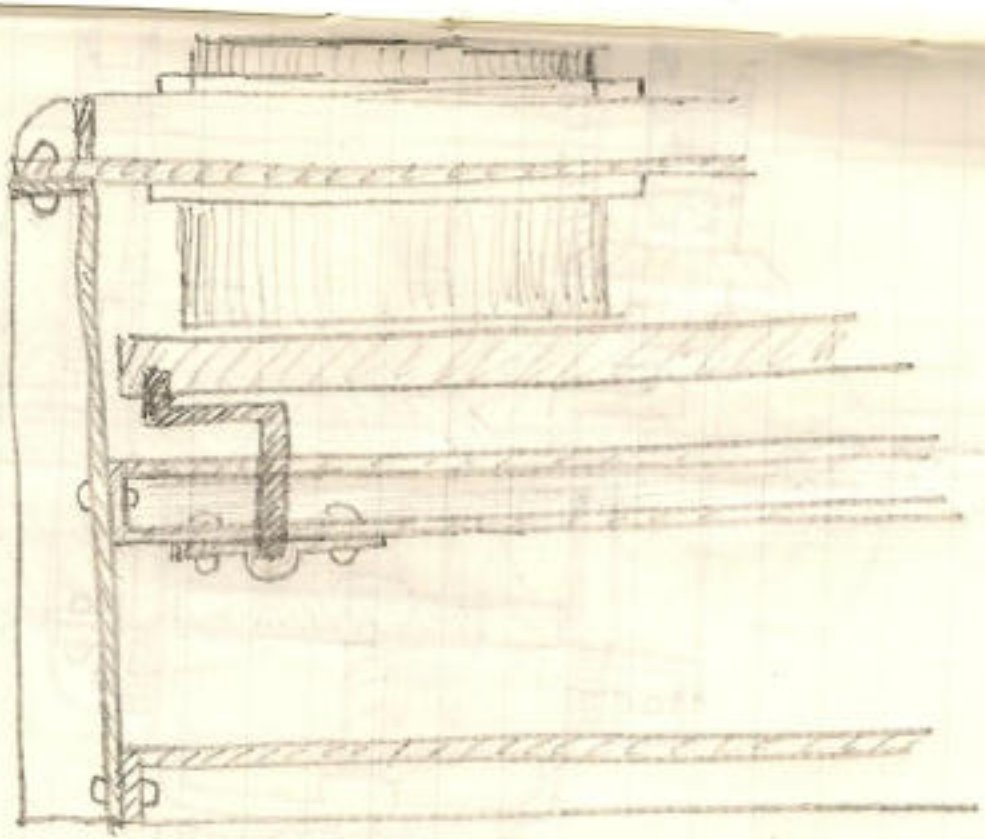
For Reducing and Classifying Coarse Tea

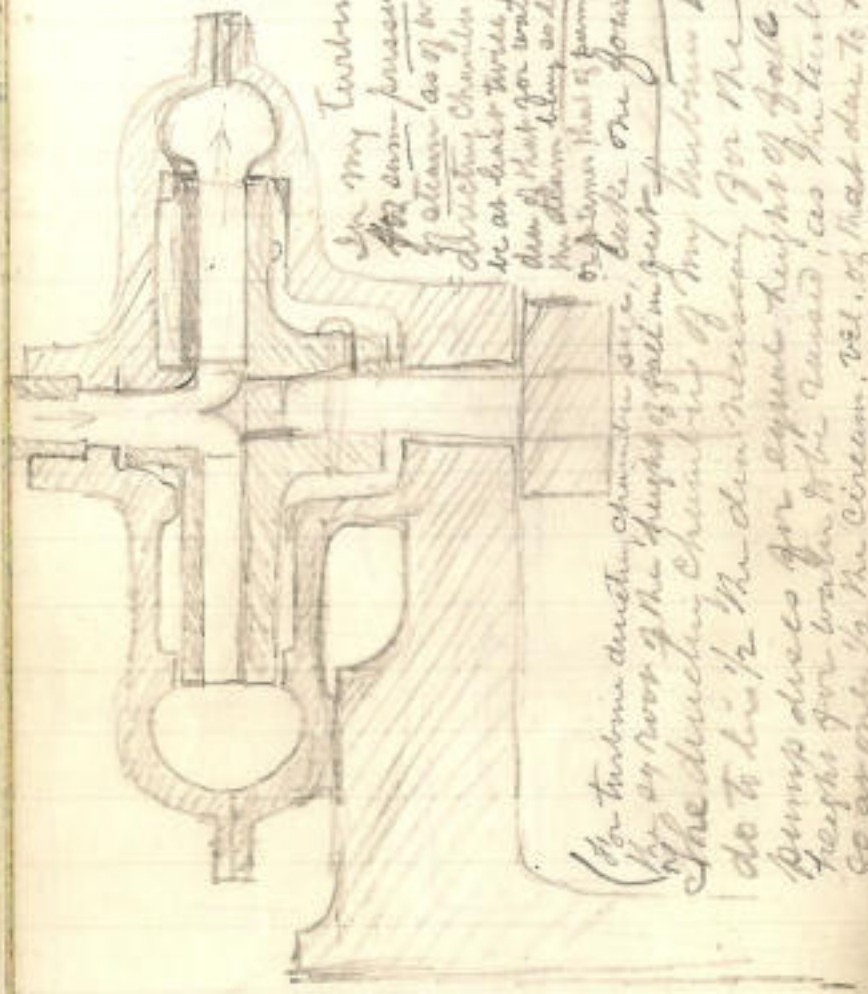


The Davidson-McGuire Patent Tea Packer

Davidson & Co Makers Sirocco Engineering Works Belfast

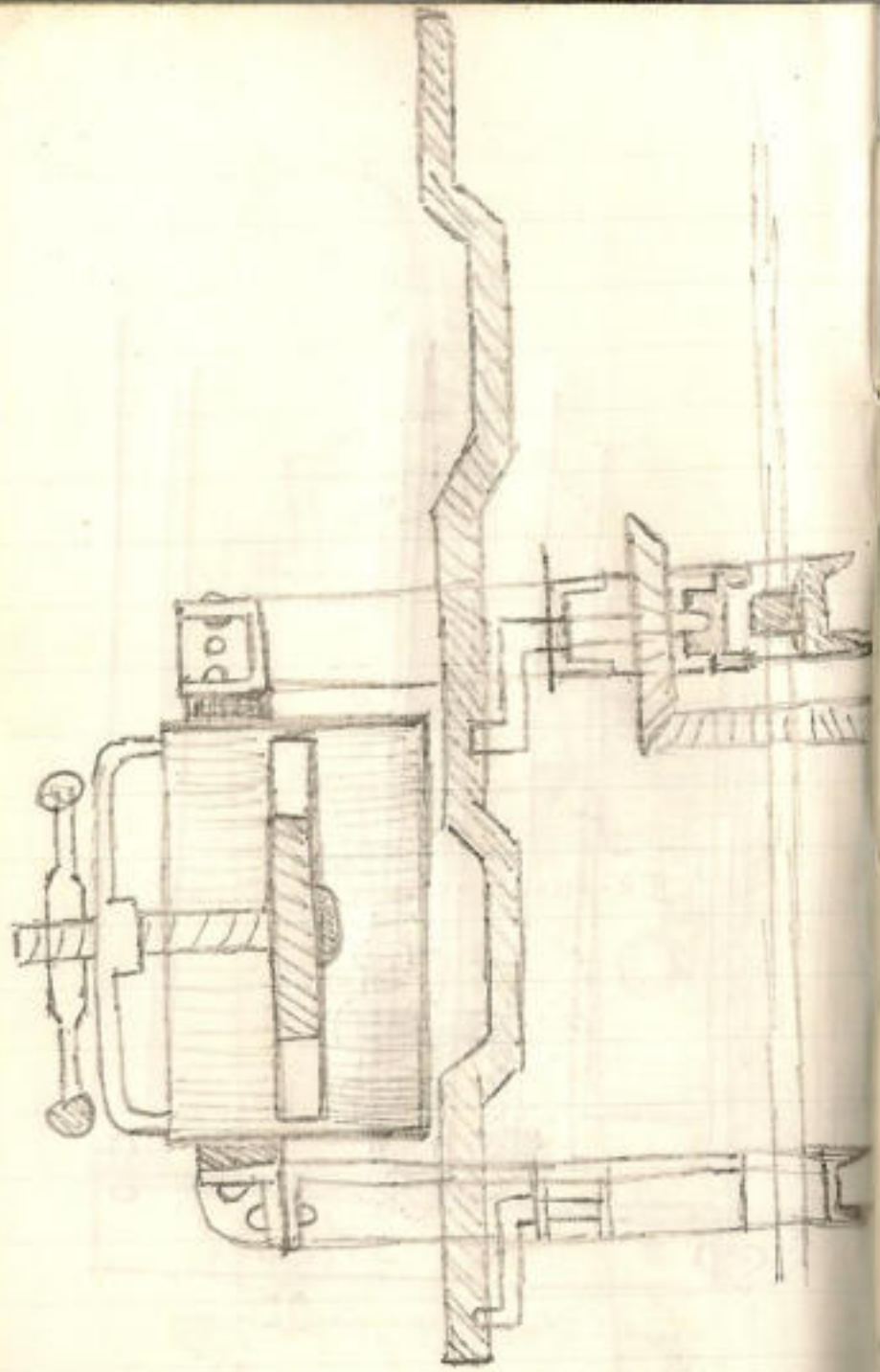

Drive by belting
Clasp of door

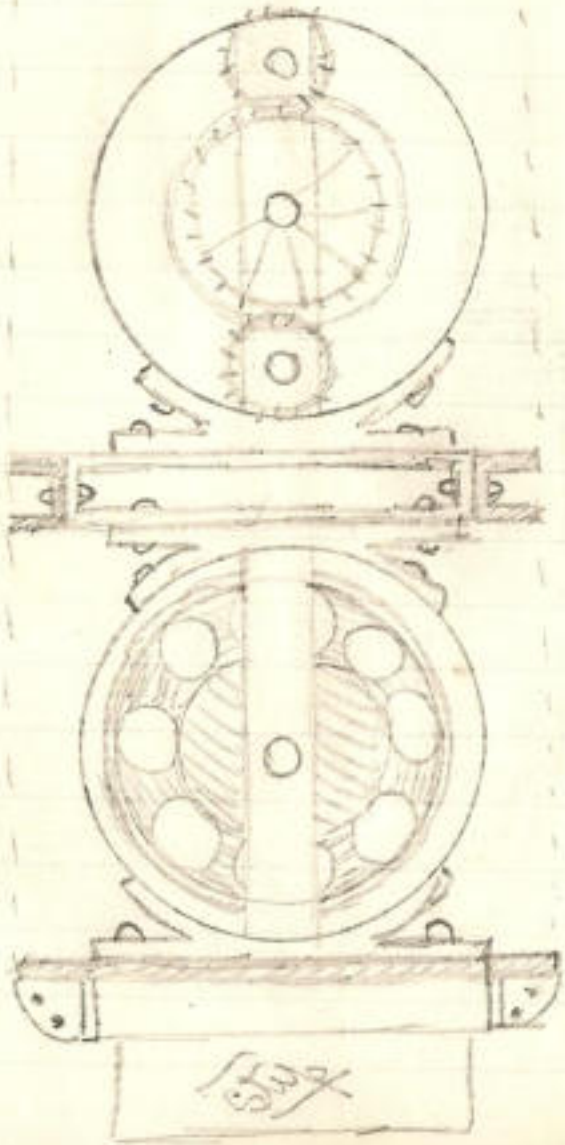


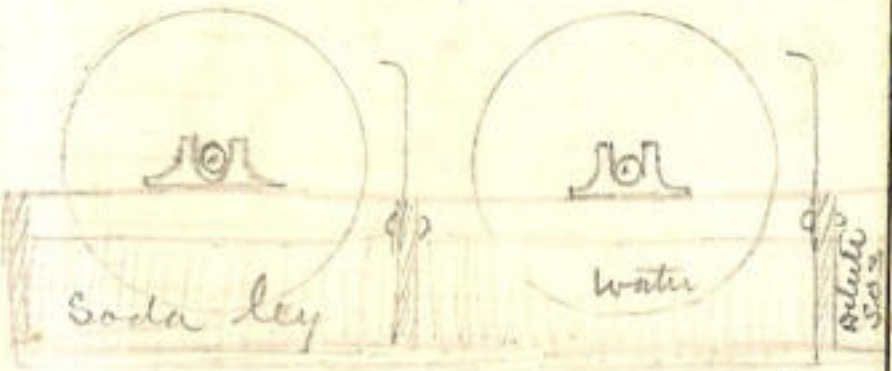


Half the sq root of the height to which the water is to be thrown, to be the dia of the pump disc with ft
Thus to throw water to 64 ft high, $\frac{\sqrt{64}}{2} = \frac{8}{2} = 4$ ft dia
" " " " 25 " " $\frac{\sqrt{25}}{2} = \frac{5}{2} = 2\frac{1}{2}$ ft dia
" " " " 16 " " $\frac{\sqrt{16}}{2} = \frac{4}{2} = 2$ ft dia
" " " " 9 " " $\frac{\sqrt{9}}{2} = \frac{3}{2} = 1\frac{1}{2}$ ft dia

In a centrifugal pump-
Use 16 ducts, and their length
shd be approximately 40 times their dia-
and this will be pretty accurately attained
by making the radius of the pump disc
3/2 radius of the ducts - this radius being the dia of
the mouths or convex side of the ducts. -
The sum of the areas of the ducts to be
same as the area of inlet pipe when
reckoned as a square of its diameter
- because when the
contents have to pass through
16 ducts, each 1/16 the area of
the whole, the friction will
balance their slightly increased
area, in comparison with the
circle of the inlet pipe - So for
this purpose the inlet pipe circle
may be reckoned as a square
of its dia -
Divide this square into as many
parts as there are to be of ducts (16)
and the dia of these smaller squares
is to be taken as depth of the
ducts, which are to be laid off
accordingly - The inner points of these
ducts will form a circle 1/2 inch
in dia than inlet pipe no matter what the dia





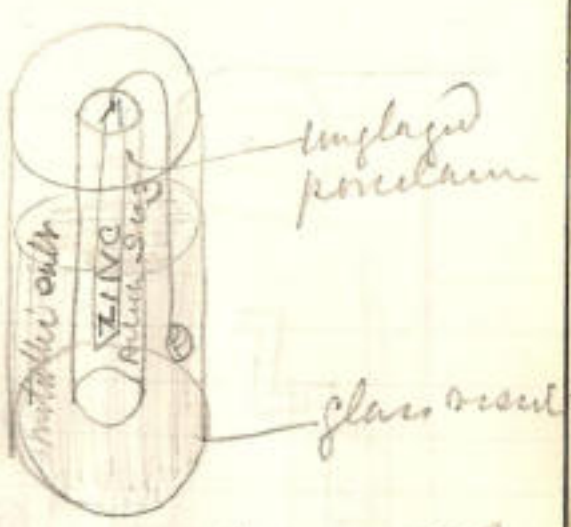


Wood box lead lined - 5 Compartments
Cylinders 16" dia 12" long
Ends of cast brass - Brass spindle
Perforated copper plate around
Cylinder - Sliding door in side
for filling & emptying —

A good Copper bath
20 parts Sulphate of Cu –
160 " water –

Which solution is mixed
with 60 parts Neutral
tartrate of potash
dissolved in 650 parts
Caustic soda –
Solution 1.12 Sp. Gr. –

3 Quarts of Rain Water
4 ounces of Rock
salt pulverized
Chloride –
Use Daniells Battery



Suspend a bag of Copper
crystals in bath to
maintain strength of
Solution –

Sand my process to prevent
iron articles being corroded
from the strength of the
acid of the metallic
salts bath instead of being
coated with the metal
Cover the articles with