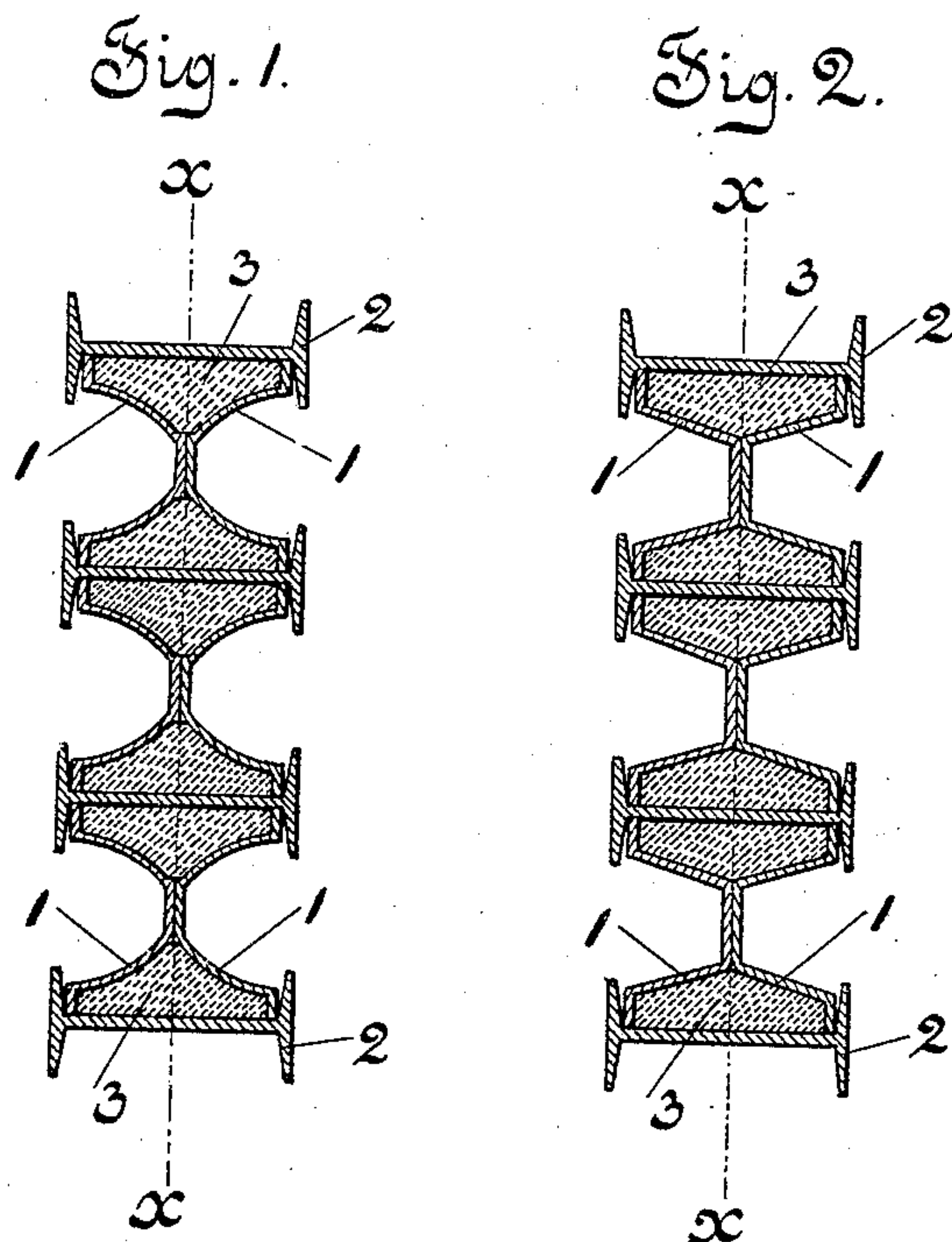


918,064.

G. G. KRIWOSCHEIN.
STEEL PILING.
APPLICATION FILED JUNE 15, 1908.

Patented Apr. 13, 1909.



Witnesses:
Max Rensky.
Gustav Braune.

Inventor G. G. Kriwoschein
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UNITED STATES PATENT OFFICE.

GREGOR GREGORIEWITSCH KRIWOSCHEIN, OF ST. PETERSBURG, RUSSIA.

STEEL PILING.

No. 918,064.

Specification of Letters Patent.

Patented April 13, 1909.

Application filed June 15, 1908. Serial No. 438,579.

To all whom it may concern:

Be it known that I, GREGOR GREGORIEWITSCH KRIWOSCHEIN, a subject of the Czar of Russia, and residing at No. 50 Spalernaja, St. Petersburg, Russia, have invented certain new and useful Improvements in Steel Piling, of which the following is a specification.

The invention relates to steel piling to be applied in making foundations for abutments, piers, embankments, docks and such like constructions.

In order that the invention may be clearly understood reference is made to the accompanying drawing and in which:—

Figure 1 is a horizontal section through one form of the invention whereas Fig. 2 is a horizontal section through a second form of the invention.

This steel-piling is composed of beams 2 which have normal I-shaped sections. The beams 2 are arranged more or less adjacent to each other, their webs being parallel one to another. Two irons 1 such as Zores- or Vauterin- irons are arranged between the beams 2 backside by backside in such a way, that the webs of the irons 1 are disposed in contact one with another and the flanges of these irons 1 are in contact with the inner face of the flanges of the beams 2. The

flanges overlap and engage each other to prevent lateral movement. Between the diverging sides of the irons 1 and the webs of the beams 2 there are free spaces 3 which can be filled with concrete thus making water-proof the steel-piling.

The cross-section of the object of my invention is distinguished by a very great moment of inertia relating to line $x-x$ surpassing the moment of inertia of steel pilings usually composed of beams of largest cross-section.

What I claim as my invention and desire to secure by Letters Patent is:

In steel-piling the combination of beams more or less adjacent to each other and having I-shaped cross-sections, with pairs of Zores-irons inserted between each pair of said beams, the webs of said Zores-irons disposed in contact one with another, the flanges of said Zores-irons disposed in contact with the inner face of the flanges of said beams, and concrete filling the free space between said beams and said Zores-irons.

In witness whereof I have hereunto set my hand in presence of two witnesses.

GREGOR GREGORIEWITSCH KRIWOSCHEIN.

Witnesses:

H. A. LOVIAGHIN,
AUG. MIGHIS.