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(54) Title: EXCAVATING MACHINE FOR ROCKY AND OTHER SOILS

(57) Abstract: A trench excavating machine includes an excavating wheel on which are mounted spaced apart peripheral plates equipped with ripping teeth and spades. The ripping teeth are angled outward from the plates at an acute angle directed in the direction of rotation of the cutting wheel to attack the leading edge of a trench being excavated. Ripping teeth and spades are arranged at varying spacing on succeeding plates about the centerline of the cutting wheel. A transverse conveyor located within the circumference of the cutting wheel transports spoil to the side of the cutting wheel. A spoil deflector removes spoil adhered to the inside of the cutting wheel.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC: E02F 5/04(2007.01)

USPC: 37/359

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 37/359, 352, 190

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,179,829A (KINKADE) 25 December 1979 (25.12.1979), columns 2-4, figures 1-4.	1, 3, 5, 7, 8
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Y		2, 6
Y	US 5,873,186 A (YODER et al) 23 February 1999 (23.02.1999), columns 3-6, figures 1-4, 10-12, 16, 17.	2, 5



Further documents are listed in the continuation of Box C.



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